NAVAIR

PROPOSED

NAVY TRAINING SYSTEM PLAN

FOR THE

AIM-9X

SIDEWINDER MISSILE SYSTEM

N88-NTSP-A-50-9601B/P

JANUARY 2004

AIM-9X SIDEWINDER MISSILE SYSTEM

EXECUTIVE SUMMARY

This Proposed Navy Training System Plan (NTSP) has been developed in accordance with OPNAVINST 1500.76 to identify the life-cycle, manpower, personnel, and training requirements associated with the AIM-9X Sidewinder Missile.

The AIM-9X was developed as a short-range air-to-air missile with enhanced target acquisition capabilities using the existing AIM-9M Sidewinder Missile warhead, rocket motor and fuze components in combination with a new seeker/guidance and jet vane control section. The mission of the AIM-9X is to detect, home in, intercept, and destroy enemy aircraft. The AIM-9X acquisition program is currently in the third Low-Rate Initial Production (LRIP) lot option. Early Operational Fielding began in the third quarter of FY03 at MCAS Iwakuni and continued in the forth quarter at NAS Lemoore. Initial Operational Capability (IOC) is anticipated in the second quarter of FY04.

The maintenance concept for the AIM-9X is based on an overall objective to assure that All-Up-Round (AUR) missiles are available to fulfill commitments of operational activities, and to provide the means to restore unserviceable missiles to serviceable condition with minimum downtime. Maintenance requirements are allocated to three levels of maintenance as defined in the Naval Ordnance Maintenance Management Program (NOMMP), OPNAVINST 8000.16 (series).

The AIM-9X did not alter the operator (pilot) manning requirements at any organizational activity (aircraft squadron). No new skills are required for operation of the AIM-9X. The skills required to operate the AIM-9X are compatible with the skills required to operate the AIM-9M, therefore no new Naval Officer Billet Code (NOBC) or Military Occupational Specialty (MOS) is required.

The AIM-9X did not alter the manning requirements at any organizational- or intermediate-level maintenance activity. No new skills are required for maintenance of the AIM-9X at the organizational- or intermediate-levels of maintenance. The skills required to perform maintenance on the AIM-9X are compatible with existing skills required to perform maintenance on the AIM-9M and AIM-120; therefore, no new Naval Enlisted Classifications (NECs) or MOSs are required. Raytheon Missile Systems (RMS) will provide AUR and component-level maintenance throughout the missile's life cycle. Therefore, the AIM-9X will not alter the manning requirements at organic AUR and component-level maintenance activities.

Existing operator and maintenance training courses for the AIM-9M have been modified to include AIM-9X information. These modifications incorporated AIM-9X information into course curricula without changing course lengths, instructor or student billets.

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LIST OF ACRONYMS

AAE	Aircraft Armament Equipment
ABF	Annular Blast Fragmentation
ACDU	Active Duty
ACMI	Air Combat Maneuvering Instructor
ACTI	Air Combat Tactics Instructor
AFD	Arm and Fire Device
AFLOATRAGRU	Training Group Afloat
AIM	Airlaunched Aerial Intercept Guided Missile
AIMD	Aircraft Intermediate Maintenance Department
AIRMAINTTRSGRPDET	Air Maintenance Training Squadron Group Detachment
ALSP	Acquisition Logistics Support Plan
AMRAAM	Advanced Medium-Range Air-to-Air Missile
AMTCS	Aviation Maintenance Training Continuum System
AO	Aviation Ordnanceman
AOB	Average On Board
AOOCP	Aviation Ordnanceman Officer Career Progression
AOTD	Active Optical Target Detector
AR	Active Reserve (USMC)
ASM	AMTCS – Software Module
ASRAAM	Advanced Short-Range Air-to-Air Missile
AT	Aviation Electronics Technician
ATIR	Annual Training Input Requirement
AUR	All-Up-Round
AWL	Advanced Weapons Laboratory
BIT	Built-In-Test
CAI	Computer Aided Instruction
CARD	Cost Analysis Requirements Document
CAS	Control Actuation System
CATM	Captive Air Training Missile
CBT	Computer Based Training
CCRP	Captive Carriage Reliability Program
CEST	Classroom Explosive Ordnance Disposal System Trainer
CFE	Contractor Furnished Equipment
CIN	Course Identification Number
CITIS	Contractor Integrated Technical Information Service
CL	China Lake
CMBRE	Common Munitions BIT Reprogramming Equipment

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LIST OF ACRONYMS

CMC	Commandant of the Marine Corps
CMI	Computer Managed Instruction
CNATT	Center for Naval Aviation Technical Training
CNO	Chief of Naval Operations
COMFLTACT	Commander, Fleet
COMLANTFLT	Commander U.S. Atlantic Fleet
COMNAVAIRLANT	Commander, Naval Air Forces, Atlantic
COMNAVAIRPAC	Commander, Naval Air Forces, Pacific
COMNAVAIRRESFOR	Commander, Naval Air Reserve Force
COMPACFLT	Commander U.S. Pacific Fleet
COMSTKFIGHTWING LANT	Commander, Strike Fighter Wing, Atlantic
COTS	Commercial Off-The-Shelf
CRALTS	Common Rack And Launcher Test Set
CV	Aircraft Carrier
CVN	Aircraft Carrier, Nuclear
CWTPI	Conventional Weapon Technical Proficiency Inspection
DAB	Defense Acquisition Board
DATM	Dummy Air Training Missile
DEFTACI	Defensive Tactics Instructor
DEM/VAL	Demonstration and Validation
DET	Detachment
DT	Development Test
DT&E	Developmental Test and Evaluation
DT/OT	Development Test/Operational Test
E&MD	Engineering and Manufacturing Development
ECP	Engineering Change Proposal
ECR	Electronic Classroom
EDM	Engineering Development Model
EOD	Explosive Ordnance Disposal
EODTEU	Explosive Ordnance Disposal Training and Evaluation Unit
ESAD	Electronic Safe and Arm Device
ETJ	Electronic Training Jacket
FASOTRAGRULANT	Facility Aviation Support Operator Training Group, Atlantic
FCR	Formal Course Review
FMS	Foreign Military Sales
FPA	Focal Plane Array

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LIST OF ACRONYMS

FRA	Fin Retainer Assembly
FREST	Fleet Replacement Enlisted Skills Training
FRS	Fleet Replacement Squadron
FTD	Fleet Training Device
FWST	Fleet Weapons Support Team
FY	Fiscal Year
GCS	Guidance Control Section
GFE	Government Furnished Equipment
GM	Gunner's Mate
GPETE	General Purpose Electronic Test Equipment
GPTE	General Purpose Test Equipment
GS	Guidance Section
H&HS	Helicopter and Helicopter Support Squadron
HARM	High-Speed Anti Radiation Missile
HMH	Marine Corps Heavy Helicopter Squadron
HMLA	Marine Corps Light Attack Helicopter Squadron
HMM	Marine Corps Medium Helicopter Squadron
HMSC	Hughes Missile Systems Company
HMT	Marine Corps Helicopter Training Squadron
HPRR	Human Performance Readiness Review
HSIP	Human Systems Integration Plan
ICW	Interactive Courseware
IDTC	Inter-Development Training Cycles
ILSP	Integrated Logistics Support Plan
IOC	Initial Operational Capability
IPT	Integrated Product Team
IR	Infrared
IRCCM	Infrared Counter-Counter Measures
IRRS	Improved Rearming Rate System
IWT	Integrated Weapons Team
JDAM	Joint Direct Attack Munition
JICWG	Joint Interface Control Working Group
JHMCS	Joint Helmet Mounted Cueing System
JRB	Joint Reserve Base
JSOW	Joint Stand-Off Weapon

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LIST OF ACRONYMS

JTX	Joint Training Exercise
LALS	Linkless Ammunition Loading System
LANT	Atlantic
LHA	Amphibious Assault Ship, Landing Helicopter Assault
LHD	Amphibious Landing Ship
LPH	Amphibious Assault Ship
LRC	Learning Resource Center
LRIP	Low-Rate Initial Production
MAD	Marine Aviation Detachment
MAG	Marine Corps Air Group
MALS	Marine Aviation Logistics Squadron
MALSE	Marine Aviation Logistics Squadron, Engineering
MAP	Munitions Application Program
MASD	Marine Corps Air Squadron Detachment
MATMEP	Marine Aviation Training Management Evaluation Program
MAW	Marine Corps Air Wing
MAWTS	Marine Aviation Weapons and Tactics Squadron
MCAF	Marine Corps Air Facility
MCAS	Marine Corps Air Station
MCCDC	Marine Corps Combat Development Command
MCO	Marine Corps Order
MCS	Marine Corps Squadron
MOAT	Missile On-Aircraft Test
MOS	Military Occupational Specialty
MOTT	Mobile Ordnance Training Team
MPCU	Mobile Power Conditioning Unit
MPT	Manpower, Personnel, and Training
MSD	Material Support Date
MTIP	Maintenance Training Improvement Program
MTL	Master Task List
MTRR	Maintenance Training Readiness Review
MTU	Maintenance Training Unit
NA	Not Applicable
NAF	Naval Air Facility
NALC CWMB	Naval Ammunition Logistics Center, Conventional Weapons Mobile Battalion
NAMTRAGRU	Naval Air Maintenance Training Group

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LIST OF ACRONYMS

NAMTRAGRU DET	Naval Air Maintenance Training Group Detachment
NAMTRAMARU	Naval Aviation Maintenance Training Marine Corps Unit
NAMTRAU	Naval Aviation Maintenance Training Unit
NAS	Naval Air Station
NAST	Naval Air Systems Team
NATEC	Naval Air Technical Data & Engineering Service Command
NATM	Live Fire Air-Launched Training Missile
NATMSACT	Naval Air Training Management Support Activity
NATSAG	Naval Aviation Training Systems Advisory Group
NATTC	Naval Air Technical Training Center
NAVAIRESFOR	Naval Air Reserve Force
NAVAIR	Naval Air Systems Command
NAVPERSCOM	Naval Personnel Command
NAVSCOLEOD	Navy EOD School
NAVSTKAIRTESTRON	Naval Strike Air Test Squadron
NAVWPNTESTRON	Naval Weapons Test Squadron
NAWCAD	Naval Air Warfare Center Aircraft Division
NAWCWD	Naval Air Warfare Center Weapons Division
NAWMU	Naval Airborne Weapons Maintenance Unit
NAWS	Naval Air Weapons Station
NCEA	Non-Combat Expenditure Allowance
NEC	Navy Enlisted Classification
NETC	Naval Education and Training Command
NOBC	Naval Officer Billet Code
NOMMP	Naval Ordnance Maintenance Management Program OPNAVINST 8000.16
NS	Naval Station
NSAWC	Naval Strike and Air Warfare Center
NSD	Navy Support Date
NTRDM	Naval Training Requirements Documentation Manual
NTSP	Navy Training System Plan
OA	Operational Assessment
OATMS	OPNAV Aviation Training Management System
OFS	Operational Flight Software
OPEVAL	Operational Evaluation
OPNAV	Office of the Chief of Naval Operations
OPNAVINST	Office of the Chief of Naval Operations Instruction
OPO	OPNAV Principal Official

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LIST OF ACRONYMS

OPTEVFOR	Operational Test and Evaluation Force
OT	Operational Test
OT&E	Operational Test and Evaluation
OTRR	Operational Test Readiness Review
PAC	Pacific
PBL	Performance Based Logistics Implementation Plan
PC	Personal Computer
PCMCIA	Personal Computer Memory Card International Association
PDA	Principal Development Agency
PDM	Program Document Management (system)
PEO	Program Executive Officer
PEST	Practical Explosive Ordnance Disposal System Trainer
PM	Point Mugu
PMA	Program Manager, Air
POI	Program of Instruction
PRM	Production Representative Model
PRMI	Production Representative Model Instrumented
PSMP	Product Support Management Plan
P/SS	Propulsion and Steering Section
QUAL/CERT	Qualification and Certification
RAIMD	Reserve Aviation Intermediate Maintenance Department
RFOU	Ready for Operational Use
RFT	Ready For Training
RMS	Raytheon Missile Systems
RSP	Render Safe Procedure
SAMP	Single Acquisition Management Plan
SCC	Support Equipment Configuration Change
SCS	Software Configuration
SEAM	Sidewinder Expanded Acquisition Mode
SEC	Support Equipment Change
SEAOPDET	Sea Operational Detachment
SELRES	Selective Reserve
SFARP	Strike Fighter Advanced Readiness Program
SFTI	Strike Fighter Tactics Instructor
SFTP	Strike Fighter Training Program
SFTS	Strike Fighter Training System

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LIST OF ACRONYMS

SFWE	Strike Fighter Weapons Employment
SFWS	Strike Fighter Weapons School
SFWSL	Strike Fighter Weapons School Atlantic
SFWSP	Strike Fighter Weapons School Pacific
SFWT	Strike Fighter Weapons and Tactics
SLAM	Standoff Land Attack Missile
SMCR	Selected Marine Corps Reserve
SPETE	Special Purpose Electronic Test Equipment
SPTE	Special Purpose Test Equipment
SST	Ship Suitability Test
ST	Special Tools
STRKFTRWING	Strike Fighter Wing
SURFLANTAVORDMTT	Aviation Ordnance/Mobile Training Team, Naval Surface Forces, Atlantic
SWATSLANT	Strike Weapons and Tactics Atlantic
T&E	Test and Evaluation
T&R	Training and Readiness
TALD	Tactical Air Launched Decoy
TAR	Training and Active Reserve (USN)
TBD	To Be Determined
TD	Training Device
TEE	Training Effectiveness Evaluation
TEMP	Test and Evaluation Master Plan
TM	Torpedoman
TOFT	Tactics and Operational Flight Trainer
TPS	Test Program Set
TTCOR	Test, Training Conventional Ordnance Requirements
TTE	Technical Training Equipment
TYCOM	Type Commander
USAF	United States Air Force
USMC	United States Marine Corps
USN	United States Navy
VAQ	Electronic Attack Squadron
VF	Fighter Squadron
VFA	Fighter Attack Squadron
VFC	Fighter Combined Squadron
VFMAAW	Marine Corps All Weather Fighter-Attack Squadron

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LIST OF ACRONYMS

VMA	Marine Corps Attack Squadron
VMAQ	Marine Corps Electronic Attack Squadron
VMAT	Marine Attack Training Squadron
VMFA	Marine Fighter Attack Squadron
VMFAT	Marine Fighter Attack Training Squadron
VX	Air Test and Evaluation Squadron
WSESRB	Weapons Systems Explosive Safety Review Board
WSO	Weapon and Sensor Officer
WST	Weapons Systems Trainer
WTI	Weapons and Tactics Instructor
WTT	Weapons Tactics Trainer

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PREFACE

This Draft Navy Training System Plan (NTSP) for the AIM-9X Sidewinder Missile is an update of the Draft AIM-9X NTSP dated November 2003. It complies with OPNAVINST 1500.76 and the guidelines set forth in the Navy Training Requirements Documentation Manual (NTRDM), P-751-1-9-97.

The major changes and updates to this NTSP consist of:

PART I — Updated to reflect progress made during the design, development, testing of the AIM-9X on the F/A-18C/D and F/A-18E/F, as well as status of Low-Rate Initial Production.

PART II — Recalculated to depict current billet requirements of fleet support units through FY08.

PART III — In addition to reflecting the changes mentioned above, this part has been updated by recalculating chargeable student billets through FY08.

PART IV — Updated to refine the training and training logistics support requirements to include F/A-18E/F requirements.

PART V — Updated to reflect programmatic and technical schedule changes.

PART VI — Updated to include open action/watch items.

PART VII — Updated to reflect current Points of Contact.

PART I - TECHNICAL PROGRAM DATA

A. TITLE-NOMENCLATURE-PROGRAM

1. **Title-Nomenclature-Acronym.** Sidewinder Missile System - AIM-9X - None.
2. **Program Element.** 0603715D

B. SECURITY CLASSIFICATION

1. System Characteristics ..... Secret

2. Capabilities ..... Secret

3. Functions ..... Confidential

C. NTSP PRINCIPALS

OPNAV Principal Official (OPO) Program Sponsor ..... CNO (N78)

OPO Resource Sponsor..... CNO (N781C8)

Marine Corps Program Sponsor ..... CMC (ASL-30)

Developing Agency ..... PEO (T) (PMA-259)

Training Agency ..... COMLANTFLT
COMPACFLT
CNATT
COMNAVAIRRESFOR
NSAWC (N7)
MAWTS-1

Training Support Agency..... NAVAIR (PMA-205)
COMNAVAIRRESFOR (N3W)

Manpower and Personnel Mission Sponsor..... CNO (N12)
NAVPERSCOM (PERS-4, PERS-404)

Director of Naval Training ..... CNO (N00T)

Commander, Reserve Program Manager.....COMNAVAIRRESFOR (N3W)

Marine Corps Total Force Structure .....MCCDC (C-5352)

D. SYSTEM DESCRIPTION

1. Operational Uses. The AIM-9X Sidewinder Missile, hereafter referred to as the AIM-9X, is a supersonic, short-range, air-to-air missile with enhanced target acquisition

capabilities. The AIM-9X is flown on active duty and Reserve Navy and Marine Corps fighter and attack aircraft, in both offensive and defensive counter-air missions as a highly maneuverable, launch and leave missile with passive infrared (IR) guidance. It provides full day and night capability, resistance to countermeasures, increased off-boresight angle acquisition and launch capability, increased maneuverability, and improved target acquisition over the AIM-9M.

2. Foreign Military Sales. The AIM-9X program is a joint United States Navy (USN) and United States Air Force procurement, with the USN designated as the lead service. Other versions of the AIM-9 (series) Sidewinder have been the subject of Foreign Military Sales (FMS) activity. Multiple countries have chosen the AIM-9X as their next short-range air-to-air missile. Among these countries are Switzerland, South Korea, and Poland.

E. DEVELOPMENTAL TEST AND OPERATIONAL TEST. The AIM-9X program is a joint service development and acquisition program. The Navy is the lead or executive service and the Air Force is the participating service. The Naval Air Systems Command (NAVAIR) Air-to-Air Missiles, Program Manager, Air (PMA-259) is the acquisition and development agent for AIM-9X and is comprised of Navy, Marine Corps and Air Force personnel. Table 1 lists the Engineering and Manufacturing Development (E&MD) phase Test and Evaluation (T&E) schedule (Source: Test and Evaluation Master Plan (TEMP) Revision D).

Table I-1. AIM-9X E&MD T&E Schedule

Test Phase	Period
Developmental Test (DT)-IIA	Jan 97 - Aug 98
DT-IIB/C	Sep 98 - Dec 00
Operational Test (OT)-IIA	Sep 99 – Jul 00
Captive Carriage Reliability Program (CCRP)	May 00 - Sep 02
DT Assist	Nov 00 - May 02
OT-IIB (OPEVAL)	Aug 02 - Aug 03

1. Developmental Test and Operational Test Not Completed

a. F/A-18C/D. The F/A-18C/D was the lead integration aircraft for the AIM-9X program. The AIM-9X T&E program completed OT-IIB Operational Evaluation (OPEVAL) testing in August 2003 and the OPEVAL Report was signed and released in December 2003.

b. F/A-18E/F. The F/A-18E/F is a follow-on integration platform for AIM-9X. Aircraft compatibility is the focus during follow-on integration because the missile has already been evaluated. Environmental and carrier suitability tests are complete. Four more safe separation shots are planned and captive carry assets are in place for the captive flights planned. Navy

leadership is seeking to accelerate the F/A-18E/F integration testing so that the AIM-9X is authorized for flight on the F/A-18E/F by the fourth quarter of 2004.

c. F/A-18A+. The F/A-18A+ is a follow-on integration platform for AIM-9X. Aircraft compatibility is the focus during follow-on integration because the missile has already been evaluated. A support contract with Raytheon has been put in place for the integration effort. Ground test with Raytheon test equipment is pending aircraft availability. Captive carry flights are planned.

2. Developmental Test Completed. All developmental testing for AIM-9X has been completed. Of the nineteen (19) missile firings that occurred in DT, eighteen (18) were scored as successful hits/kills.

3. Operational Test Completed

a. F/A-18C/D Operational Test -II

(1) Operational Test -IIA. OT-IIA began in September 1999 with the OA Operational Test Readiness Review (OTRR) certification and concluded with the fifth EDM launch. This phase consisted of 200 hours of captive carriage tests followed by five EDM launches to assess the potential operational suitability of the AIM-9X. The five EDM launches were:

- A defensive notch position at maximum range,
- A Visual Identification engagement at minimum range,
- A defensive notch position at minimum range,
- An offensive notch position at minimum range with countermeasures,
- A one-circle engagement with countermeasures.

OT-IIA completed in July 2000 with a positive recommendation, stating that AIM-9X was potentially operational suitable (capability and logistically) and that the development program should continue and proceed toward OT-IIB, OPEVAL.

In preparation for the start of OT-IIA, RMS provided AIM-9X F/A-18 Loading Procedures training to VX-9 ordnancemen at NAWCWD China Lake on 8 September 1999. RMS provided AIM-9X Theory of Operation and F/A-18 Aicrew Procedures training to VX-9 test pilots at Boeing St. Louis in conjunction with Boeing's JHMCS training on 14 July 1999. RMS provided an informal brief covering container inspection, missile unpacking and missile inspection to NAWCWD China Lake Station Weapons personnel (civilians) on 9 September 1999.

(2) Captive Carriage Reliability Program. CCRP began in August 2000 with the delivery of the first Production Representative Missile-Instrumented (PRMI). CCRP continued through September 2002 to test the reliability and maintainability of the AIM-9X.

Captive carriage missions were flown using PRMI, while their condition was monitored by visual inspections and testing using the AIM-9X Built-In-Test (BIT)/Reprogrammer. CCRP was extended through August 2003 using LRIP Lot 1 missiles to continue and expand the AIM-9X data collection effort.

In preparation for the start of CCRP, RMS provided AIM-9X BIT/ Reprogramming and Component Remove and Replace Procedures training to VX-9 ordnancemen and NAWCWD China Lake Station Weapons personnel (civilians) at NAWCWD China Lake on 12-13 July 2000. A Naval Aviation Maintenance Training Unit (NAMTRAU) instructor from North Island and a Weapons Department Ordnanceman from NAS Lemoore also attended the training.

(3) Ship Suitability Test. AIM-9X Ship Suitability Test (SST) was conducted 13-14 March 2001 aboard the USS Stennis, CVN-74. Missile receipt, de-canning, inspection, handling/movement, BIT, and reprogramming instruction was provided to Ship's Company, who then performed those same tasks using five AIM-9X AUR containers (CNU-609/E), three AIM-9X inert rounds, and one AIM-9X PRMI. The training was conducted by two instructors from NAMTRAU North Island, Maintenance Training Unit (MTU) 4033, using briefs, training handbooks, Computer-Based Training (CBT) for BIT/reprogramming familiarization, and PC-card/embedded training for BIT/reprogramming hands-on practice. VX-9 personnel were in attendance to witness the training for potential early credit for OPEVAL.

(4) Operational Test – IIB. OT-IIB, better known as OPEVAL, commenced in August 2002, using the F/A-18C/D aircraft to assess and verify operational effectiveness, supportability, and suitability of the AIM-9X missile for fleet introduction. The Operational Test and Evaluation Force (OPTEVFOR), using the Fleet's Air Test and Evaluation Squadron (VX)-9, performed OPEVAL under actual fleet conditions. It had been delayed due to grounding of the QF-4 target drones required for the various test shots. Twenty-five test shots were executed by VX-9 and the Air Force Test & Evaluation Command. Captive carry testing and data analysis continued through November 2003. OPTEVFOR provided an "End of Test" message in August 2003 and signed and released the OPEVAL Report in December 2003. The AIM-9X Weapon System received an assessment of "Operationally Effective but Not Operationally Suitable" with a recommendation for fielding. Reliability (Mean Time Between Critical Captive Carry Failures) and Maintainability (Mean Time To Repair) were the source of the "Not Operationally Suitable", which were present in OT and LRIP 1 missiles, but are remedied in LRIP 2 missiles.

In preparation for the start of OT-IIB, RMS provided AIM-9X F/A-18 Loading Procedures training to VX-9 squadron ordnance personnel and AIM-9X Theory of Operation and F/A-18 Aircrew Procedures training to VX-9 test pilots at NAWCWD China Lake on 4-5 February 2002. Additionally, RMS provided AIM-9X Familiarization, Safety, Unpacking, Inspection, Maintenance, BIT & Reprogramming, and Packing procedures to Weapons Department (G1 and G3) ordnance personnel aboard the USS Nimitz, CVN-68, on 28-29 May 2002. Instructors from NAMTRAU North Island assisted with the hands-on portion.

b. F/A-18E/F Integration. The F/A-18E/F is a follow-on integration platform for AIM-9X. Carrier suitability tests were completed in April 2003. Environmental qualification and testing were completed in June 2003 and are awaiting the final report from Raytheon. Dynamic Stores Release tests were completed in July 2003. One safe separation shot was successfully completed in November 2003; four more are planned. Captive carry assets are in place for the captive flights planned. Navy leadership is seeking to accelerate the F/A-18E/F integration testing so that the AIM-9X is authorized for flight on the F/A-18E/F by the third quarter of 2004.

c. F/A-18A+. The F/A-18A+ is a follow-on integration platform for AIM-9X. Integration efforts are just underway with no testing completed.

F. AIRCRAFT AND/OR EQUIPMENT/SYSTEM/SUBSYSTEM REPLACED. RMS' AIM-9X design uses and modifies the existing AIM-9M rocket motor (MK36 MOD 11), warhead (WAU-17/B), and Active Optical Target Detector (AOTD) (DSU-15A/B and DSU-15B/B). The Government supplies these components to RMS during the E&MD and LRIP 1/2/3 phases to build AIM-9X configurations, but new production MK36 rocket motors will be procured specifically for AIM-9X (without AIM-9M wing ribs). Because of the AIM-9X production quantities/schedule and existing AIM-9M inventory, however, the AIM-9X will replace the AIM-9M in a phased approach.

G. DESCRIPTION OF NEW DEVELOPMENT

1. Functional Description. The AIM-9X is a supersonic, air-to-air, guided missile that employs a passive IR target acquisition system, proportional navigational guidance, a closed-loop position servo Control Actuation Section (CAS), and an AOTD. The AIM-9X is launched from an aircraft after target detection to home in on IR emissions then intercept and destroy enemy aircraft. The missile interfaces with the aircraft through the missile launcher (either the LAU-7D/A or LAU-127A/A) using a forward umbilical cable, and/or a mid-body umbilical connector and three missile hangars. The AIM-9X has three basic phases of operation: captive flight, launch, and free flight.

The AIM-9X uses/modifies the existing AIM-9M AOTD, warhead, and rocket motor, but incorporates a new Guidance Section (GS), new hangers, a new mid-body connector, new harness and harness cover, new titanium wings and fins, and a new CAS. The missile is propelled by the AIM-9M solid-propellant rocket motor, but uses a new Arm and Fire Device (AFD) handle design called the Safe Arm Selector handle. Also, the AIM-9M rocket motor is modified to mount the CAS on its aft end. Four forward-mounted, fixed titanium wings provide aerodynamic lift and stability for the missile. Four titanium control fins mounted in line with the fixed wings and activated by the CAS accomplish airframe maneuvering. The CAS provides thrust vectoring by using four jet vanes to direct the flow of the rocket motor exhaust. The AIM-9X is configured with the AIM-9M Annular Blast Fragmentation (ABF) warhead, which incorporates a new Electronic Safe and Arm Device (ESAD) to arm the warhead after launch.

The AIM-9M AOTD is used to detect the presence of a target at distances out to the maximum effective range of the missile warhead and to command detonation.

a. Guidance Section. The GS provides the missile tracking, guidance, and control signals. It consists of three major subassemblies: (1) a mid-wave IR Focal Plane Array (FPA) seeker assembly for detecting the target, (2) an electronics unit that converts the detected target information to tracking and guidance command signals, and (3) a center section containing the cryoengine, contact fuze device, two thermal batteries, and required harnesses and connectors. The coolant supply for the GS is provided by the twin-opposed-piston, linear drive, Stirling cryoengine, eliminating the need for external nitrogen supply via the launchers.

b. Active Optical Target Detector. The AIM-9X AOTD is the AIM-9M DSU-15A/A or DSU-15B/B modified and redesignated as the DSU-36/B or DSU-37/B, respectively. These are the same AOTD used by AIM-9M with the exception that the forward end "V" groove is removed, because the forward marmon clamp, used to join the AIM-9M Guidance Control Section (GCS) to the AOTD, has been replaced with 14 captive screws. The AOTD is a narrow-beam, active optical, proximity fuze system. The AOTD transmits pulsed IR energy through the four forward windows and the reflected energy is received by an IR detector through the aft four windows. The purpose of the AOTD is to detect the presence of a target at distances out to the maximum effective range of the missile warhead and to generate an electrical firing signal so that the Electronic Safe and Arm Device (ESAD) explosive train and warhead are detonated at a point where the average kill probability is maximized.

c. Warhead. The AIM-9X uses the WDU-17/B warhead; the same warhead used on the AIM-9M but uses a different safe and arm device. The new ESAD fits into the hollow central cavity of the warhead, and arms the missile at a safe distance from the launch aircraft. The warhead is an explosive-loaded, end-initiated, annular blast, titanium rod fragmentation type warhead comprised of a case assembly, a transfer tube assembly, a loaded warhead booster, a PBXN-3 explosive charge, and an enclosure. It detonates upon receipt of the explosive output from the ESAD.

- **Electronic Safe-Arm Device.** The ESAD is an in-line explosive train, electronic-actuated firing device containing environmental sensor monitoring circuitry, safety logic circuitry, high voltage circuitry, and explosives. AIM-9X performance requirements for extreme flight conditions and greatly enhanced maneuverability drove the ESAD design. ESAD arming occurs only after the ESAD receives the irreversible commit to launch signal, experiences the appropriate launch environment (sensed axial acceleration) and reaches a safe separation distance. Missile battery power, which is only available once the AIM-9X is committed to an engagement, powers the ESAD.

d. Propulsion and Steering Section. The AIM-9X Propulsion and Steering Section (P/SS) design modifies the existing AIM-9M Mk 36 Mod 11 rocket motor in order to mount the

CAS on the aft end of the rocket motor and to provide a mid-body umbilical connector. The AIM-9X P/SS is designated the WPU-17/B. The AIM-9X modifications to the Mk 36 Mod 11 rocket motor consist of machining off the AIM-9M wing ribs; removal of the submerged nozzle; attachment of a mid-body umbilical; conformal CAS electronics controller module; and an interconnecting harness mounted to the underside of the rocket motor case. Two electrical contacts buttons are in the forward hanger. The aft contact button is used to complete the rocket motor igniter circuit. The forward contact button is not used. The AIM-9X rocket motor consists of a steel case; type X-61 (AS 6065) solid composite propellant grain; an igniter device; an AFD, and a Safe Arm Selector handle.

(1) Forward Hanger/Mid-body Umbilical Connector and Buffer Connector. Slightly "taller" hangers for AIM-9X replace the hangers on the AIM-9M rocket motor. These taller hangers provide additional separation between the missile and the launcher. This separation is needed to provide adequate clearance for the AIM-9X on all launcher configurations. The middle and aft hanger mountings are unchanged from the AIM-9M configuration, while an integrated forward hanger/mid-body umbilical assembly replaces the AIM-9M forward hanger. The mid-body umbilical connector adds a mid-body interface for the LAU-127 launcher. This connection provides the missile MIL-STD-1553 digital communications with the launching aircraft, and requires a buffer connector similar to the Advanced Medium-Range Air-to-Air Missile (AMRAAM) buffer connector. The forward hanger/mid-body umbilical assembly is an integrated assembly that consists of the hanger, the mid-body umbilical connector, the umbilical cabling, and the rocket motor AFD wiring to the hanger striker points. The rocket motor AFD wiring is unchanged from that used in the AIM-9M and interfaces with the striker points as in the AIM-9M configuration.

(2) Arm-Fire Device. The AFD is a manual safety device that prevents the inadvertent firing of the rocket motor. The device is switched to the arm position on the flight line by the ground crew prior to flight. It is the same MK 297 AFD that is used presently on AIM-9M, although the handle is modified to allow for the new harness cover. The new handle is called the Safe Arm Selector handle. The handle is a "PLUS" or cruciform design with four extensions. This design provides a visual confirmation of the arm/safe condition of the rocket motor. Three of the extensions are painted black and the fourth is painted white. The safe or armed condition is indicated by the position of the white extension in relation to the ARM/SAFE indication on the rocket motor harness cover decal/stencil.

(3) Control Actuation System. The CAS provides AIM-9X flight control and connects to the aft end of the rocket motor. The CAS is a thrust vector control system consisting of four movable aerodynamic tail fins and four jet vanes that direct the flow of the rocket motor exhaust. Each jet vane is slaved to the associated tail fin shaft on the same side of the missile. Prior to launch, spring-loaded pistons lock the tail fins and jet vanes from moving. With missile battery power available, the fin unlock command fires an unlock Electronic Explosive Device into a manifold, causing withdrawal of all fin lock tabs by the squib/cartridge output-gas-powered piston movement. A wiggle test verifies positive fin control, which must occur in order

for the rocket motor initiation command to be generated. A dedicated 106 VDC thermal battery in the guidance section powers the CAS.

The jet vanes are in the exhaust section of the missile, aft of the rocket motor. They are mechanically linked through a shaft to the control fins and provide additional steering capability by redirecting the exhaust gases. Damage to the jet vanes can occur if they are used to lift the missile during ground handling.

(4) Harness and Harness Cover. Unlike the AIM-9M, an electronic harness has been added to the AIM-9X to provide the communications interface between the electronics unit in the GS and the other missile components. Due to the lack of space internally, the harness mounts externally on the underside of the missile surface. A harness cover (made up of an aft, center, and forward cover) spans most of the length of the missile and provides an aerodynamic surface and protective cover for the electronic harness and the CAS electronic circuit board. The forward harness cover is made of a fibrite phenolic material, while the aft harness cover is made of stainless steel. Both are replaceable in the field by removing the screws attaching them to the missile. The center cover is made of aluminum and specifically protects the CAS electronics module. The alignment of the center cover is critical, requiring a special fixture for proper assembly at the factory. The forward and aft covers possess various cutouts for access to the Safe and Arm Selector Handle and marmon clamps.

2. Physical Description. Physical characteristics of the AIM-9X are as follows:

Length:	119 inches
Body Diameter:	5 inches
Fin Span:	17.5 inches
Weight:	189 pounds

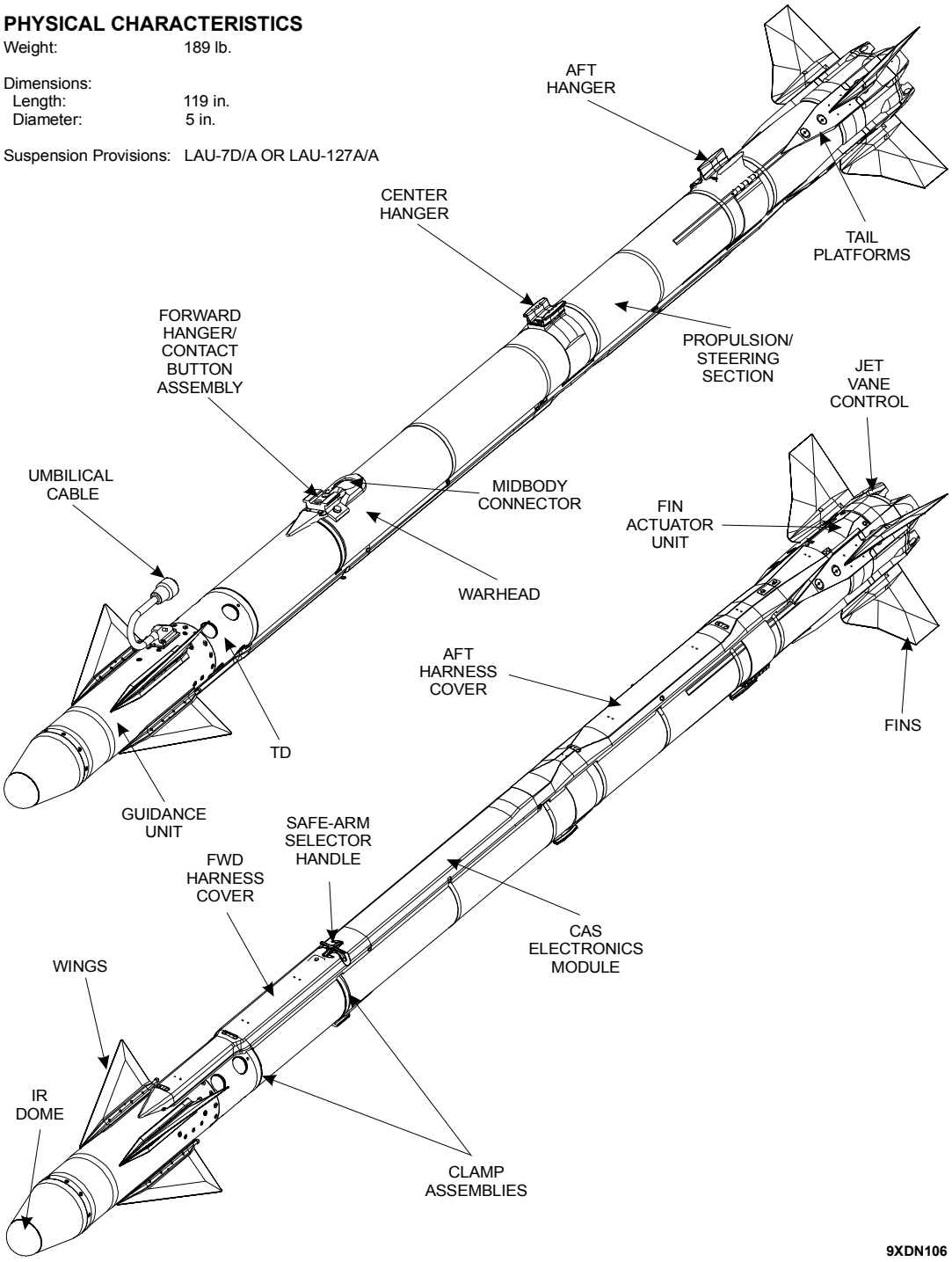

Figure I-1. AIM-9X AUR Missile

3. New Development Introduction. Early operational fielding of the AIM-9X missile began in the third quarter of FY03 at MCAS Iwakuni followed by Carrier Air Wing (CVW)-14 at NAS Lemoore. Low-Rate Initial Production (LRIP) All-Up-Round (AUR) missile deliveries began in third quarter of FY02 and continue through FY06, when Full-Rate Production deliveries begin.

4. Significant Interfaces

a. Aircraft. The AIM-9X is required to be compatible, at full capability, with the:

- F/A-18C/D (complete)
- F/A-18E/F (in-process)
- F/A-18A+ (in-process)
- F-15C/D (complete)
- F-15E (in-process)
- F-16C/D (in-process)
- F-22 (TBD)

Other aircraft, such as the F-14D, AV-8B and AH-1W are considering AIM-9X integration. As schedules develop, they will be updated in this NTSP.

The AIM-9X has been integrated with the Joint Helmet Mounted Cueing System (JHMCS). JHMCS includes a helmet-mounted display and the capability to cue and verify cueing of high off-boresight sensors and weapons. This missile-helmet combination provides the aircrew with first-look, first-shot capability in the air-to-air, within visual range, combat arena. Increased off-boresight acquisition angle and improved situational awareness is achieved through the integrated combination of the AIM-9X missile, the JHMCS and the aircraft. JHMCS has been integrated on F/A-18E/F, F-15C/D, and F-16C/D aircraft and is also planned for the F/A-18C/D aircraft.

The lead integration platform for the USN and United States Marine Corps (USMC) was the F/A-18C/D. The primary load configuration for AIM-9X is on the wingtip station. F/A-18C/D aircraft require a modification to make them fully AIM-9X capable. This modification is known as the Digital Wingtip Modification and drives a change to the AN/AWM-100 test set. Engineering Change Proposal (ECP) 582 was developed by PMA-265, the F/A-18 Program Office, who manages the Digital Wingtip Modification for the F/A-18C/D aircraft and coordinates their schedules with PMA-259. ECP 582 was approved and funded the first 75 Digital Wingtip kits and first 24 AN/AWM-100 kits. Subsequent kits will follow annually. F/A-18C/D Digital Wingtip Modifications began in August 2002. The modified AN/AWM-100 part number is 74D750051-1007. The modified AN/AWM-100 is planned to support AIM-9X IOC until the AN/AWM-103 is fielded in FY04/05. When the AN/AWM-103 is fielded, this NTSP will be updated accordingly.

b. Launchers. For the USN and USMC, two guided missile launchers are available to carry and launch the AIM-9X on the F/A-18 aircraft.

(1) LAU-7D/A. The LAU-7A/A guided missile launcher can be used on all applicable Sidewinder weapons stations, especially the wing tip, however, it requires modification of the current power supply and the addition of digital and addressing lines to the forward umbilical to carry and launch the AIM-9X at full capability. Additionally, the Fin Retainer Assembly (FRA) must be replaced. With these modifications, it is designated the LAU-7D/A. The LAU-7D/A drives corresponding changes to the A/E37T-35, Common Rack and Launcher Test Set (CRALTS) in order to support Intermediate-level maintenance tests on the LAU-7D/A. The ECP for the LAU-7D/A was developed jointly by PMA-201, who manages the LAU-7D/A, and PMA-259. The ECP was approved and funded 178 LAU-7D/A kits. The ECP for CRALTs was developed jointly by PMA-259 and PMA-260, who manages CRALTS. The ECP was approved and funded 270 CRALTS kits.

(2) LAU-127A/A. The LAU-127A/A guided missile launcher will be used on the F/A-18E/F wing tip to carry AIM-9X. When used on the F/A-18C/D aircraft, the LAU-127A/A guided missile launcher can be used on the wing stations only. Similar to the LAU-7D/A, the LAU-127A/A FRA must be replaced prior to use. F/A-18C/D aircraft wing stations require a LAU-115 guided missile launcher in order to attach the LAU-127A/A.

c. AIM-9X BIT/Reprogrammer. The AIM-9X BIT/Reprogrammer interfaces with the AIM-9X and its Captive Air Training Missile (CATM), the CATM-9X. The AIM-9X BIT/ Reprogrammer consists of the AN/GYQ-79 Common Munitions BIT/Reprogramming Equipment (CMBRE) and the AIM-9X Test Program Set (TPS), TTU-574/E24A. It is capable of BIT checking and reprogramming the AIM-9X and CATM-9X missiles via the forward or mid-body umbilical and also through the AUR container, the CNU-609/E. The AIM-9X TPS is commonly referred to as “Box 4” because its components are contained in a test set case in addition to the three test set cases that are used to store CMBRE. The AIM-9X TPS consists of additional cables and a switch box to enable four-missile BIT/reprogramming through the CNU-609/E AUR container. The AIM-9X TPS is being procured by PMA-259 through RMS.

d. CNU-609/E. The AIM-9X AUR container is designated the CNU-609/E. It can hold up to four fully assembled missiles (wings and fins attached). Missiles inside the CNU-609/E are grounded via an in-container umbilical, which can be accessed externally from the record holder port. The container umbilical allows BIT/reprogramming of all attached missiles from a single connection. The CNU-609/E can be stacked up to ten high where sufficient space and policy permit. The CNU-609/E is being procured by PMA-259 through RMS.

e. CNU-644/E and CNU-645/E. The CNU-644/E can store two sets of AIM-9X wings (eight total), while the CNU-645/E can store two sets of AIM-9X fins (eight total). They are made up of a standard ammunition container with appropriate dunnage installed. These containers have been procured by PMA-259 through RMS.

5. New Features, Configurations, or Material. The AIM-9X utilizes mid-wave IR FPA seeker technology in lieu of the single-element IR seeker used in the AIM-9M. The AIM-9X is a digital missile with BIT and re-programming capability that is not present in the analog AIM-9M. A buffer connector must be used on the mid-body umbilical connector when the AIM-9X is loaded on the LAU-127 launcher. The AIM-9X uses an internal cryogenic engine, called a cryoengine, for IR element cooling. The cryoengine does not require externally supplied coolant, e.g., nitrogen, and thus does not use the nitrogen receiver assemblies contained in the LAU-7 and LAU-127 launchers. The AIM-9X missile wings and fins are made of titanium. Also, the AIM-9X missile uses its CAS to direct movement of the aft fins and four internal jet vanes. The jet vanes direct the flow of the rocket motor exhaust to generate thrust vector control.

H. CONCEPTS

1. Operational Concept. Aircrew personnel employ AIM-9X during air-to-air combat missions against short-range threat aircraft. The AIM-9X missile is launched from F/A-18 aircraft for USN and USMC operations, and consequently it will be stowed on deployed USN aircraft carriers as well as at forward deployed sites.

AIM-9X seeks and homes in on IR energy emitted by the target. When an IR-emitting source enters the seeker field of view, the electronics unit generates an audio signal. The pilot hears the signal through the headset, indicating that the AIM-9X has acquired a potential target. One method of cueing the AIM-9X to the target's IR energy source is referred to as boresight, whereby the missile is physically pointed toward the target via the pilot maneuvering the aircraft. The IR energy gathered by the missile seeker is converted to electronic signals that enable the missile to acquire and track the target up to its seeker gimbal limits. A second method of cueing the AIM-9X to the target's IR energy is slaving the AIM-9X seeker to the aircraft radar. The aircraft avionics system can slave the missile seeker up to a given number of degrees from the missile/aircraft boresight axis. The missile seeker is slaved until an audible signal indicates seeker target acquisition. Upon target acquisition, a seeker interlock in the missile is released (uncaged) and the missile seeker begins tracking the target. The AIM-9X seeker will then continue to track the target even beyond radar gimbal limits. A third method for cueing the AIM-9X to the target's IR energy is through use of the JHMCS. This method allows the pilot to cue the AIM-9X seeker to high off-boresight targets via helmet movement. The pilot can launch the AIM-9X anytime after receipt of the appropriate audible signal.

2. Maintenance Concept. The maintenance concept for the AIM-9X is based on an overall objective to assure that AUR missiles are available to fulfill commitments of operational activities, and to provide the means to restore unserviceable missiles to serviceable condition with minimum downtime. Maintenance requirements are allocated to three levels of maintenance as defined in the Naval Ordnance Maintenance Management Program (NOMMP), OPNAVINST 8000.16 (series). Maintenance for the AIM-9X is based on an AUR missile maintenance model, where organizational- and intermediate-level maintenance activities forward failed AUR missiles and Captive Air Training Missiles (CATMs) to RMS for repair.

a. Organizational-level

(1) Navy

(a) Aviation Ordnance. Squadron personnel with the Aviation Ordnanceman (AO) rating perform organizational-level maintenance for air-launched weapons. AOs with Navy Enlisted Classification (NEC) 8342 and 8842 perform organizational-level maintenance for air-launched weapons on the F/A-18A/B/C/D model aircraft, while AOs with NEC 8341 and 8841 perform organizational-level maintenance for air-launched weapons on the F/A-18E/F model aircraft. These squadron AOs are part of Work Center 230. AIM-9X organizational-level maintenance consists of performing (see OPNAVINST 8000.16 Volume 2, Figure 1-2-1 and 7-2-2):

- Aircraft Armament Equipment (AAE) preparation/inspection
- Aircraft weapons release and control systems checks,
- Return launcher to Aircraft Intermediate Maintenance Department (AIMD),
- Missile visual inspection for damage and corrosion,
- Missile cleaning of external surface and corrosion control,
- Remove and install protective devices,
- Uploading and downloading missile on aircraft,
- Missile BIT checks via aircraft avionics.

(b) Aviation Electronics. In F/A-18 squadrons, Aviation Electronics Technicians (ATs) perform aircraft weapons release and control systems checks. ATs with NEC 8342 and 8842 perform weapons release and control systems checks for air-launched weapons on the F/A-18A/B/C/D aircraft, while ATs with NEC 8341 and 8841 perform weapons release and control systems checks for air-launched weapons on the F/A-18E/F aircraft. In some squadrons, the Integrated Weapons Team (IWT) concept is used, and in those cases AOs may perform aircraft weapons release and control systems checks. AIM-9X release and control checks for the LAU-7D/A involve the use of a modified AN/AWM-100, part number 74D750051-1007.

(2) Marine Corps - Aviation Ordnance. Squadron personnel with the AO rating perform organizational-level maintenance for air-launched weapons. USMC AO personnel with Military Occupational Specialty (MOS) 6531 perform organizational-level maintenance for air-launched weapons on the F/A-18 aircraft. AIM-9X and CATM-9X organizational-level maintenance consists of performing (see OPNAVINST 8000.16 Volume 2, Figure 1-2-1 and 7-2-2):

- Aircraft Armament Equipment (AAE) preparation/inspection
- Aircraft weapons release and control systems checks,
- Return launcher to Marine Aviation Logistics Squadron (MALS),

- Missile visual inspection for damage and corrosion,
- Missile cleaning of external surface and corrosion control,
- Remove and install protective devices,
- Uploading and downloading missile on aircraft,
- Missile BIT checks via aircraft avionics.

b. Intermediate-level

(1) Navy

(a) Air Launched Weapons. Weapons Department personnel with the AO rating and NEC 6801 perform intermediate-level maintenance for air-launched weapons. AIM-9X and CATM-9X intermediate-level maintenance is accomplished ashore and afloat. Station Weapons personnel perform AIM-9X and CATM-9X intermediate-level maintenance tasks ashore on Naval Air Stations (NAS). Weapons Department personnel (G3 Division) perform AIM-9X and CATM-9X intermediate-level maintenance tasks aboard USN aircraft carriers (CV/CVN). These Weapons Department personnel are part of Work Center 700. AIM-9X and CATM-9X intermediate-level maintenance consists of (see OPNAVINST 8000.16 Volume 2, Figure 1-3-1):

- Storing and handling AUR missiles and AUR containers using support equipment,
- Unpacking and packing AUR missiles,
- Performing visual inspections of AUR missiles and AUR containers,
- Delivering missiles to flight line/flight deck,
- Missile BIT checks via the AN/GYQ-79 Common Munitions BIT Reprogramming Equipment (CMBRE) and AIM-9X Test Program Set (TPS), TTU-574/E24A
- Loading (reprogramming) missile software using CMBRE and AIM-9X TPS, TTU-574/E24A
- Cleaning and corrosion control of AUR missiles,
- Preservation and painting,
- Removing and replacing specified parts of AUR missiles and AUR containers,
- Record keeping/reporting.

AIM-9X and CATM-9X missile reprogramming capability aboard aircraft carriers using the AN/GYQ-79 CMBRE is dependent upon the approval from the Weapons Systems Explosive Safety Review Board (WSESRB). The currently-fielded AN/GYQ-79 CMBRE, which is used for BIT and reprogramming of Joint Direct Attack Munitions (JDAM) and Joint Stand-Off Weapon (JSOW) assets, requires the addition of a fourth box of equipment, TTU-574/E24A, to

accommodate AIM-9X BIT and reprogramming. Additionally, the AIM-9X missile software is classified and requires proper handling during BIT/reprogramming operations.

(b) Strike Armament. Aircraft Intermediate Maintenance Department (AIMD) personnel with the AO rating and NEC 6802 perform intermediate-level maintenance on the aircraft launchers. Intermediate-level maintenance for the LAU-7D/A, LAU-115A/A, and LAU-127A/A is accomplished ashore at NAS and afloat aboard USN CV/CVN. Strike armament intermediate-level maintenance, with respect to AIM-9X capable launchers, consists of (see OPNAVINST 8000.16 Volume 2, Figure 7-3-2):

- Storing, handling, and issuing launchers,
- Performing visual inspections,
- Removing and replacing replaceable assemblies,
- Testing launchers using A/E37T-35 CRALTS.

(2) Marine Corps - Air Launched Weapons and Launchers. Marine Aviation Logistics Squadrons (MALS) personnel with the AO rating and MOS 6541 perform intermediate-level maintenance for air-launched weapons and aircraft launchers. AIM-9X, CATM-9X, and related launcher intermediate-level maintenance is accomplished ashore at Marine Corps Air Stations (MCAS). AIM-9X, CATM-9X and aircraft launcher intermediate-level maintenance consists of (see OPNAVINST 8000.16 Volume 2, Figure 1-3-1 and 7-3-2):

- Storing and handling AUR missiles and AUR containers using support equipment,
- Unpacking and packing AUR missiles,
- Performing visual inspections of AUR missiles and AUR containers,
- Delivering missile to flight line,
- Missile BIT checks via the AN/GYQ-79 Common Munitions BIT Reprogramming Equipment (CMBRE) and AIM-9X Test Program Set (TPS), TTU-574/E24A
- Loading (reprogramming) missile software using CMBRE and AIM-9X TPS, TTU-574/E24A
- Cleaning and corrosion control of AUR missiles,
- Preservation and painting,
- Removing and replacing specified parts of AUR missiles and AUR containers,
- Record keeping/reporting.
- Storing, handling, and issuing launchers,
- Performing visual inspections,
- Removing and replacing replaceable assemblies,
- Testing launchers using A/E37T-35 CRALTS.

c. Depot. RMS will be responsible for depot-level maintenance, both AUR and component-level, for the life of the system. This maintenance will be accomplished through an AUR missile warranty and a repair contract for out-of-warranty AUR missiles and those sustaining government-induced damage. The AUR missile warranty includes AIM-9X CATMs.

d. Interim Maintenance. Interim supply support was not required because the LRIP 1 spares had been procured and placed in the supply system prior to initial fielding. Material Support Date (MSD), the date when organic supply support capability is established, is expected to be achieved in June 2004.

e. Life Cycle Maintenance Plan. The AIM-9X Sidewinder Acquisition Logistics Support Plan (ALSP), document number MS-371, was prepared by AIR-3.1.1L and was approved 25 January 1999. The ALSP was updated for the LRIP milestone decision and approved in August 2000. The AIM-9X Product Support Management Plan (PSMP) is a Joint USN/USAF document that satisfies the requirements set forth in AFPD 20-5, AFI 63-107, and the Department of the Navy Performance Based Logistics Implementation Plan (PBL). It superceded the ALSP, and essentially is an update to it, retaining the document number MS-371. The PSMP revision A was approved December 2001. The Sidewinder Program Office updated the AIM-9X PSMP in preparation for the LRIP Lot 4 decision in September 2003 and the Milestone III decision in November 2003.

3. Manning Concept. The AIM-9X does not impact existing manpower requirements at Government organizational-, intermediate-, or depot-level activities. Seat factor, crew ratio, and total aircraft per squadron drive the pilot and Weapon and Sensor Operator (WSO) manpower requirements. The number of weapon pylons/stations per aircraft and total per squadron drive the load crew manpower requirements for USN and USMC fleet squadrons and Fleet Replacement Squadrons (FRS). Enlisted manning for USN and USMC intermediate maintenance activities (CV/CVN, NAS, MCAS, MALS) is based on the total assigned ordnance workload driven by supported squadron requirements, and not on specific AIM-9X requirements. Skills required to support the AIM-9X are within the capability of existing NECs and MOSs (see OPNAVINST 8000.16 Volume 2, Figures 1-2-1 and 1-3-1 for AIM-9M and AIM-120). Refer to Part II for existing USN and USMC intermediate maintenance manpower requirements.

Peacetime manpower requirements for AIM-9X organizational- and intermediate-level maintenance activities can be found in the Manpower Estimate Report, serial number 6T710-1/7227. Manpower requirements for AIM-9X were based on the number of CATM-9M presentations per year for a typical F/A-18 squadron (future CATM-9X presentation requirements were assumed to be consistent with present CATM-9M presentation requirements). The Navy Training and Readiness Matrix requires 1137 CATM-9M presentations per F/A-18 squadron per year, which is based on 17 pilots per F/A-18C/D squadron, each pilot requiring 67 CATM-9M presentations per year. A worst case of one CATM-9X presentation per sortie was used, resulting in 1137 expected unpacking, upload, captive carry, download, and packing cycles per year for squadrons outfitted with CATM-9X. A squadron was considered minimally outfitted when it had received four CATM-9X, and normally outfitted when it had received

fourteen CATM-9X. Marine Corps requirements were treated similarly with the exception of F/A-18D squadrons, which were considered normally outfitted when they had received eighteen CATM-9X.

a. Organizational-level Maintenance. Loading an AIM-9X or a CATM-9X requires five AOs. One load crew (five USN AOs with NEC 8341/8342/8841/8842 or five USMC AOs with MOS 6531) can perform the 1139 CATM-9X upload-download cycles per year for an F/A-18 squadron. Approximately 60 percent of their yearly workload would be comprised of CATM-9X upload-download cycles. When multiple, concurrent CATM-9X uploading or downloading is required, additional load crews are required.

b. Intermediate-level Maintenance. Three AOs are required to unpack, inspect, and deliver the AIM-9X or the CATM-9X to the flight line/flight deck. One team of three USN AOs with NEC 6801 per Weapons Department or three USMC AOs with MOS 6541 per MALS can perform the 1139 unpacking-packing evolutions per year to support an F/A-18 squadron. Approximately 90 percent of their yearly workload would be comprised of CATM-9X unpacking-packing evolutions. When multiple F/A-18C/D squadrons must be supported, additional personnel are required.

c. Depot-level Maintenance. Depot-level maintenance, both AUR and component repair, is the responsibility of RMS. This maintenance is supported through RMS warranty and repair contracts for out-of-warranty missiles. RMS is responsible for establishing internal manpower levels for AIM-9X repair.

4. Training Concept. The AIM-9X training concept is divided into operator and maintenance training. Operator training is provided for F/A-18 pilot and WSO personnel. The AIM-9X training concept for maintenance is divided into organizational- and intermediate-levels based on OPNAVINST 4790.2 (series) and OPNAVINST 8000.16 (series). Organizational-level maintenance training is provided to AO personnel in the F/A-18 community with NECs 8341, 8342, 8841, 8842, or MOS 6531. Intermediate-level training is provided to AO maintenance personnel with NECs 6801, 6802, or MOS 6541.

Selected Reserve personnel may earn intermediate level maintenance qualifications by attending formal training at Center for Naval Aviation Technical Training (CNATT) schools, provided that quotas, funding, and students are available to attend the training. Specific guidelines are contained in NAVPERS 18068F Volume II, Chapter IV, Navy Enlisted Classifications.

The established training concept for most aviation maintenance training divides "A" School courses into two or more segments called Core and Strand. Many organizational level "C" School courses are also divided into separate Initial and Career training courses. "A" School Core courses include general knowledge and skills training for the particular rating, while "A" School Strand courses focus on the more specialized training requirements for that rating and a specific aircraft or equipment, based on the student's fleet activity destination. Strand training immediately follows Core training and is part of the "A" School. Upon completion of Core and Strand "A" School, graduates attend the appropriate Initial "C" School for additional specific training. Initial "C" School training is intended for students with a paygrade of E-4 and below. Career "C" School training is provided for E-5 personnel and above to enhance skills and knowledge within their field.

a. Initial Training

(1) DT and OT. RMS provided training to NAVWPNTESTRON, VX-9, USS Nimitz, military instructors, and Naval Air Systems Team (NAST) personnel prior to the start of DT-IIB, OT-IIA, CCRP, and OT-IIB phases. Training included instruction and practice for aircrew, organizational-level maintenance AOs, and intermediate-level maintenance AOs. Course lengths for aircrew and organizational-level maintenance courses have not exceeded one day. Course lengths for intermediate-level maintenance have not exceeded two days. RMS provided AIM-9X Explosive Ordnance Disposal (EOD) data to the Navy EOD Technology Division, Stump Neck, Maryland. This EOD data and the procedures developed and forwarded by EOD personnel at the NAWCWD range were used to develop Render Safe Procedures (RSPs) for the AIM-9X and documented in the 60-series publications. The RSPs are used at Navy EOD School (NAVSCOLEOD) and EOD Training and Evaluation Units (EODTEUs) to train EOD technicians. See III.A.1 for more information.

(2) Ship Suitability Test. NAVAIR PMA-205 and PMA-259 coordinated training for the AIM-9X Ship Suitability Test (SST) conducted 13-14 March 2001 aboard the USS Stennis. RMS training materials were used/modified and two Naval Air Maintenance Training Unit (NAMTRAU) instructors from MTU-4033 NAS North Island provided instruction. SST training topics included unpacking, inspection, removing/replacing field-replaceable components, handling, and BIT/reprogramming using CMBRE/AIM-9X TPS. VX-9 personnel witnessed the SST and training to assess potential credit toward OPEVAL. See III.A.1 for more information.

(3) Initial Fielding. RMS and NAST personnel, including Fleet Weapons Support Team (FWST) personnel, use/modify T&E training curricula, training aids, and LRIP Training Devices (TDs) to provide training during initial fielding. Aircrew, organizational- and intermediate-level training has been provided to USN and USMC instructors prior to Initial Operating Capability (IOC), as well as to squadron personnel and ship's company prior to carrier deployments. See III.A.1 for more information on initial training completed and scheduled. Early initial fielding began in the third quarter of FY03 at MCAS Iwakuni, followed by CVW-14 at NAS Lemoore. USN and USMC instructors use the training curricula, training aids, and TDs

and incorporate them into existing follow-on courses. The organizations that have or are anticipated to receive initial training are:

- Marine Fighter Attack Squadron (VMFA)-212, MCAS Iwakuni (completed)
- CVW-14 (Fighter Attack Squadron (VFA)-25 and VFA-113), NAS Lemoore (completed)
- Naval Strike and Air Warfare Center (NSAWC), NAS Fallon (completed)
- Marine Aviation Weapons and Tactics Squadron One (MAWTS-1), MCAS Yuma, Arizona (completed)
- Strike Fighter Weapons School, Pacific (SFWSP), NAS Lemoore (completed)
- Strike Fighter Weapons School, Atlantic (SFWSL), NAS Oceana
- VFA-106, NAS Oceana, Virginia (training package only)
- VFA-122, NAS Lemoore, California (training package only)
- VFA-125, NAS Lemoore, California (training package only)
- Marine Fighter Attack Training Squadron (VMFAT)-101, MCAS Miramar (training package only)
- MTU 4030 NAMTRAGRU DET Mayport (completed)
- MTU 4032 NAMTRAU Norfolk (completed)
- MTU 4033 NAMTRAU North Island (completed)
- MTU 4034 NAMTRAMARU Cherry Point (completed)
- MTU 4035 NAMTRAU Whidbey Island (completed)
- AO "A" School Class A1, NAS Pensacola (completed)
- Aviation Ordnanceman Officer Career Progression (AOOCP) School, Pensacola, Florida (completed)
- Naval Airborne Weapons Maintenance Unit (NAWMU) One, Guam

b. Follow-on Training. Training for existing AIM-9M missiles is in place. Operator (aircrew), organizational-level, and intermediate-level maintenance training courses which contain AIM-9M Sidewinder Missile information have been updated to include AIM-9X information. Follow-on training for the AIM-9X is available as part of courses taught at the FRS, MTUs, NSAWC, and Strike Fighter Weapons Schools (SFWS). The addition of AIM-9X material did not change student throughput or chargeable student billets.

(1) Operator Training. Pilots and WSOs are trained at the appropriate FRS for specific aircraft operation and weapons. Pilot and WSO skills in tactics and ordnance delivery are further enhanced at SFWS, NSAWC, and through on-board proficiency training.

(a) Training Devices. TDs required for follow-on and proficiency operator training include the existing aircraft simulators and the CATM-9X. Also, AIM-9X assets (NATM-9X) are required for live-fire exercises, which are part of the annual Test, Training

Conventional Ordnance Requirements (TTCOR). TTCOR were previously listed as Non-Combat Expenditure Allowance (NCEA).

- **Weapons Tactics Trainer, 2E7.** The Weapon Tactics Trainer (WTT), TD number 2E7, is a computer-based weapon system training device, which is commonly referred to as the "dome trainer". F/A-18C/D WTTs are located at NAS Lemoore, NAS Oceana, MCAS Miramar, and MCAS Beaufort. They are presently concurrent with SCS 13C. The WTT provides familiarization in F/A-18C/D operational procedures and F/A-18C/D approved stores and missiles, as well as proficiency training in launch and control techniques. The Navy WTT are planned to be converted to F/A-18F trainers or retired, while the Marine Corps are seeking to update their WTT to SCS 17C and 19C.

- **Tactical Operational Flight Trainer.** The F/A-18C/D Tactical Operational Flight Trainer (TOFT) uses a three-panel visual system and can be networked with other TOFT. F/A-18C/D TOFT are located at NAS Lemoore, NAS Oceana, and NAS Atsugi. They are configured with SCS 13C, but are being updated to SCS 17C. The TOFT provides familiarization in F/A-18C/D operational procedures and F/A-18C/D approved stores and missiles, as well as proficiency training in launch and control techniques.

- **Captive Air Training Missile, CATM-9X.** The CATM-9X is an inert, captive flight TD permitting realistic exercise of the AIM-9X guidance section. It consists of a tactical AIM-9X guidance section, tactical wings and fins, and an inert aft section. The tactical guidance section is modified by replacing its two lithium ion batteries with ballast and by setting a firmware flag to "captive". This modification eliminates the need for a special training umbilical, while still allowing software reprogramming. Airborne operation of the CATM-9X provides the aircrew with all AIM-9X interactions between the aircraft and missile without expending the missile. Fourteen CATM-9X are planned per F/A-18 squadron (eighteen for USMC F/A-18D squadrons). For detailed information on CATM-9X refer to element IV.A.2.

(b) Training Aids. Training aids required for follow-on and proficiency operator training include the AIM-9X FA18C/D Aircrew Interactive Courseware (ICW). For detailed information on AIM-9X ICW refer to element IV.B.2.

- **AIM-9X FA-18C/D Aircrew ICW.** AIM-9X FA-18C/D Aircrew ICW is a component of the Strike Fighter Weapons and Tactics (SFWT) curricula, and is hosted on the Strike Fighter Training System (SFTS). SFWT and SFTS are two of three components of NSAWC's Strike Fighter Training Program (SFTP), which is primarily targeted at providing post-FRS training to Strike Fighter aircrew. The SFTS is a high-speed, wide area network, linking schools and squadrons together with standardized, Computer-Based Training (CBT) and ICW. Strike Fighter Tactics Instructors (SFTIs), the third component of the SFTP, are trained by NSAWC N7 (Topgun) and administer the SFWT curricula within the squadrons. AIM-9X ICW has been developed for the SFTS by NSAWC, PMA205 PMA259, along with Air Force participation for F-15C content. A Beta version was released in March 2003, and a final is

anticipated for release in September 2003, following the completion of OPEVAL. A subsequent update is planned to include a module on FA-18E/F integration.

(c) Courses. The following table lists the applicable operator training courses. The AIM-9X source material will be incorporated in these courses with minimal impact. The addition of AIM-9X material will not change student throughput or chargeable student billets, and, therefore, these courses will not appear in Parts II and III. See F/A-18 NTSP for course details.

Table I-2. Operator Courses

COURSE NUMBER	COURSE TITLE	AIM-9X RFT DATE
D/E-2A-0601	F/A-18 Fleet Replacement Pilot Category 1	Sep 03
D/E-2A-0602	F/A-18 Fleet Replacement Pilot Category 2A	Sep 03
D/E-2A-0604	F/A-18 Fleet Replacement Pilot Category 3A	Sep 03
D/E-2A-0606	F/A-18 Fleet Replacement Pilot Category 4	Sep 03
None	F/A-18 Strike Fighter Advanced Readiness Program	Sep 03
None	F/A-18 Strike Fighter Weapons Employment	Sep 03
M13P4B3	F/A-18D Fleet Replacement Pilot Basic and Transition	Sep 03
M13P3V3	F/A-18D Fleet Replacement Pilot Refresher	Sep 03
M13P3W3	F/A-18D Fleet Replacement Pilot Modified Refresher	Sep 03
M13P4C3	F/A-18D WSO Basic and Transition	Sep 03
M13P3R3	F/A-18D WSO Refresher	Sep 03
M13P3S3	F/A-18D WSO Modified Refresher	Sep 03
N/A	Topgun AIM-9X Brief	Sep 03

(2) Initial Skills - Maintenance. The AO "A1" School at NAS Pensacola, Florida provides AIM-9X initial skills training for the AO rating. See Figures I-2 through I-7.

(a) Training Devices. TD required include:

- **DATM-9X.** The DATM-9X is physically representative of the AIM-9X. It is a TD that facilitates instruction and familiarization for transporting, handling, loading, and visual inspection procedures for intermediate-level maintenance training purposes. The DATM-9X is designed for ground training use only, and is not certified for flight. For the Navy and Marine Corps, the DATM is used in the training/schoolhouse environment and is repaired locally. Remove and replace components that are shared with the tactical AIM-9X, e.g., wings, fins, etc., are available in the supply system. For detailed information on DATM-9X, refer to element IV.A.2.

- **Aviation Ordnance Trainer (Device 3B64).** The Aviation Ordnance Trainer is a mock-up of a generic aircraft fuselage/wing used for ordnance load training. Currently, it is compatible with the LAU-7A/A launcher and supports loading AIM-9M training missiles. AIM-9X load training is accomplished with installation of the LAU-7D/A; a portion of existing A School LAU-7A/A assets will receive the LAU-7D/A modification or be replaced by LAU-7D/A assets.

(b) Technical Training Equipment. TTE required include:

- **LAU-7D/A Launcher.** The LAU-7D/A is required to teach and practice AIM-9X release and control checks, AIM-9X loading, and launcher maintenance. Existing Schoolhouse LAU-7A/A assets require modification to the LAU-7D/A configuration or to be replaced by LAU-7D/A assets. Refer to I.G.4.b for more information.

- **CNU-609/E AUR Container.** The AIM-9X AUR container is required to teach and practice unpacking/packing evolutions, as well as, container maintenance. Refer to I.G.4.d for more information.

- **CNU-644/E and CNU-645/E.** The AIM-9X wing and fin containers are required to teach and practice unpacking/packing wings and fins. Refer to I.G.4.d for more information.

(c) Courses. AIM-9X source material has been incorporated into the following courses with minimal impact. The addition of AIM-9X material did not change student throughput or chargeable student billets, and, therefore, these courses will not appear in Parts II and III. The following table lists the applicable initial skills courses for the AO rating that required AIM-9X data. The applicable Human Performance Readiness Review (HPRR) for these courses is the AO "A1" School HPRR.

Table I-3. Initial Skills - Maintenance Courses

COURSE NUMBER	COURSE TITLE	AIM-9X RFT DATE
C-646-2011	Aviation Ordnanceman Common Core Class A1	Sep 03
C-646-2012	Aviation Ordnanceman Navy Difference Training Class A1	Sep 03

(3) Organizational-level Maintenance. O-level Maintenance personnel are trained at the appropriate SFWS (LANT/PAC) for F/A-18 weapons loading and launcher release and control checks. Weapon loading skills are further enhanced through on-board proficiency training. See Figures I-2 through I-4.

(a) TDs. The TD required for follow-on and proficiency training is the CATM-9X. The CATM-9X is used at SFWS for the AIM-9X Conventional Weapons Technical Proficiency Inspection (CWTPI), as well as at operational F/A-18 squadrons to satisfy loading and handling training requirements.

(b) Technical Training Equipment. TTE required include:

- **LAU-7D/A Launcher.** The LAU-7D/A is required to teach and practice AIM-9X release and control checks and AIM-9X loading. Existing Schoolhouse LAU-7A/A assets require modification to the LAU-7D/A configuration or to be replaced by LAU-7D/A assets. Refer to I.G.4.b for more information.

- **AN/AWM-100 (part number 74D750051-1007).** The AN/AWM-100 requires modification to work with the LAU-7D/A. Existing Schoolhouse AN/AWM-100 assets require modification to the 74D750051-1007 configuration. The modified AN/AWM-100 is planned to support AIM-9X IOC until the AN/AWM-103 is fielded. When the AN/AWM-103 is fielded, this NTSP will be updated accordingly. Refer to I.G.4.a for more information.

(c) Courses. AIM-9X is taught in the following organizational-level maintenance training courses. The AIM-9X source material has been incorporated in these courses with minimal impact. The addition of AIM-9X material did not change student throughput or chargeable student billets, and, therefore, these courses will not appear in Parts II and III. See the F/A-18 NTSP for organizational-level maintenance training course details. The applicable HPRR for these courses is the F/A-18 200 Division HPRR.

Table I-4. Organizational-level Maintenance Courses

COURSE NUMBER	COURSE PROVIDER	COURSE TITLE	AIM-9X RFT DATE
E-646-0640	SFWSPAC	F/A-18 Conventional Weapons Loading	Sep 03
D-646-0640	SFWSLANT	F/A-18 Conventional Weapons Loading	Sep 03
E-646-0647	SFWSPAC	F/A-18 Conventional Release System Test	Sep 03
D-646-0647	SFWSLANT	F/A-18 Conventional Release System Test	Sep 03

(4) Intermediate-level Maintenance. Intermediate-level maintenance training is available for USN and USMC AOs through the appropriate MTU. See Figures I-5 through I-7.

(a) Training Devices. The TD required for follow-on and proficiency training is the DATM-9X. The DATM-9X is physically representative of the AIM-9X. It is a TD that facilitates instruction and familiarization for transporting, handling, loading, and visual inspection procedures for intermediate-level maintenance training purposes. The DATM-9X is designed for ground training use only, and it is not certified for flight. For the Navy and Marine Corps, the DATM is used in the training/schoolhouse environment and is repaired locally.

Remove and replace components that are shared with the tactical AIM-9X, e.g., wings, fins, etc., are available in the supply system. For detailed information on DATM-9X, refer to element IV.A.2.

(b) Technical Training Equipment. TTE required include:

- **CNU-609/E AUR Container.** The AIM-9X AUR container is required to teach and practice unpacking/packing evolutions, as well as, container maintenance. Refer to I.G.4.d for more information.

- **CNU-644/E and CNU-645/E.** The AIM-9X wing and fin containers are required to teach and practice unpacking/packing wings and fins during remove and replace maintenance. Refer to I.G.4.d for more information.

- **AN/GYQ-79 CMBRE and TTU-574/E24A AIM-9X TPS.** CMBRE and the AIM-9X TPS (TTU-574/E24A) are needed to teach and practice AIM-9X BIT/reprogramming operations. The AIM-9X TPS is commonly referred to as "Box 4" because it supplements the three boxes that are used to ship and store CMBRE. Additionally, training software is available that simulates the AIM-9X Munitions Application Program (MAP) for training use (see AIM-9X CMBRE-Embedded Training under Training Aids). Refer to I.G.4.c for more information.

- **315-ASX AC Power Conditioning Unit.** AIM-9X BIT/reprogramming requires a conditioned AC power source for CMBRE and AIM-9X TPS operation. On board aircraft carriers, the power conditioning is installed via a SHIPALT at the forward and aft transfer areas and a third area that is TBD. The SHIPALT power-conditioning unit is model number 345-ASX made by Pacific™. For the schoolhouse environment, a similar model power-conditioning unit is used, model number 315-ASX made by Pacific™. The 315-ASX is mounted on a steel frame mobile cart, and together they are commonly referred to as the Mobile Power Conditioning Unit (MPCU). The JDAM program office, PMA201, procured and delivered the MPCUs for the schoolhouses to support JDAM BIT/reprogramming training. The ASX-315 is not authorized for tactical AIM-9X and CATM-9X BIT/reprogramming because the 3-phase power its supplies is not rated to the required 115 Vac. The ASX-315 was chosen for the schoolhouse environment because it does not requires 3-phase input power, its controls are nearly identical to the ASX-345, and power is not applied to the DATM-9X during BIT/reprogramming training when using the CMBRE-Embedded Training PC card.

- **LAU-7D/A Launcher.** The LAU-7D/A is required to teach and practice LAU-7D/A intermediate maintenance. Existing Schoolhouse LAU-7A/A assets require modification to the LAU-7D/A configuration or to be replaced by LAU-7D/A assets. Refer to I.G.4.b for more information.

- **A/E37T-35 CRALTS.** A properly configured A/E37T-35 CRALTS is required to teach and practice LAU-7D/A intermediate maintenance. Existing Schoolhouse

CRALTS assets have completed Support Equipment Configuration Change (SCC) 3070 that modifies the internal software and are in the process of implementing Support Equipment Change (SEC) 5573 to modify the W28 cable to the appropriate configuration. Refer to I.G.4.b for more information.

(c) Training Aids. Training aids required for follow-on and proficiency training include the AIM-9X Maintenance ICW and AIM-9X CMBRE-Embedded Training PC Cards. For detailed information on training aids, refer to element IV.B.2.

- **AIM-9X Maintenance ICW.** The AIM-9X Maintenance ICW is a self-paced, stand-alone training application that provides familiarization on AIM-9X maintenance tasks. These tasks include missile BIT, reprogramming, and remove/replace component procedures.

- **AIM-9X CMBRE-Embedded Training.** The AIM-9X Munitions Application Program (MAP) is the software that resides on a PC card and is used by CMBRE to BIT/reprogram tactical AIM-9X assets. The PC card also contains the AIM-9X Operational Flight Software (OFS) and is classified. To overcome security and power limitations in the schoolhouse environment, PMA 259 and PMA 205 contracted RMS to develop a Training MAP that does not contain the classified AIM-9X OFS, that simulates the tactical AIM-9X MAP, and that does not apply power to the test asset. The result is the AIM-9X "Training" MAP, which is unclassified, resides on a PC card and it is used with CMBRE and the DATM-9X to teach and practice AIM-9X BIT/reprogramming procedures. Additionally, instructors can insert simulated faults to teach troubleshooting procedures. An accompanying Maintenance Data Log PC card is provided, similar to the tactical AIM-9X, for added realism.

(d) Courses. The following table lists intermediate-level maintenance training courses that have AIM-9X source material incorporated. Detailed listings for these courses follow the table. Course updates were based on incorporating the RMS training materials used for DT/OT training, edited and reformatted to fit within the existing course length and format. The addition of the AIM-9X training materials did not change existing student throughput or chargeable student billets. For detailed information, refer to element IV.A.2. The applicable HPRRs for these courses are the 700/900 Division HPRRs – one is held for each service (USN and USMC).

Table I-5. Intermediate-level Maintenance Courses

COURSE NUMBER	COURSE TITLE	AIM-9X RFT DATE
C-122-3111	Air Launched Guided Missiles Intermediate Maintenance	September 03
C-646-3105	Aviation Ordnance Intermediate Maintenance Technician	September 03
C-646-3118	Strike Armament Systems Intermediate Maintenance	September 03
C-646-4108	Air Launched Weapons Ordnance Supervisor	September 03
C-646-4109	Weapons Department General Aviation Ordnance	September 03

Title ..... **Air Launched Guided Missiles Intermediate Maintenance**

CIN ..... C-122-3111 (part of D/E-646-7007)

Model Manager. MTU 4030, NAMTRAGRU DET Naval Station (NS) Mayport

Description..... This course provides training to the first tour Aviation Ordnancemen, Gunner's Mates and Torpedoman's Mates, including:

- Basic theory
- Safety precautions
- Technical publications
- Missile reporting procedures

Upon completion, the student will have sufficient knowledge/theory of the Sparrow, Phoenix, Sidewinder, Sidearm, AMRAAM, Maverick, Harpoon, SLAM, HARM, Tow, Hellfire, Penguin All Up Round (AUR) Air Launched Guided Missiles, Walleye Weapon System, Tactical Air Launched Decoy (TALD) and Air Nitrogen Purifier Units to perform, under close supervision, Intermediate Maintenance in the CV/CVN, LPH/LHA, NAS/MCAS working environment.

Locations ..... MTU 4030, NAMTRAGRU DET, NS Mayport
MTU 4032, NAMTRAU, NAS Norfolk
MTU 4033, NAMTRAU, NAS North Island
MTU 4035, NAMTRAU, NAS Whidbey Island

Length..... 11 days

RFT date ..... Currently available

Skill identifier... AO 6801

TD/TTE DATM-9X, AN/GYQ-79, TTU-574/E24A, ASX-315, CNU-609/E, CNU-644/E, CNU-645/E

Prerequisite ..... AO, GM, TM, or Graduate of AO (ClassA1) School or equivalent or designated striker

Title	**Aviation Ordnance Intermediate Maintenance Technician**
CIN	C-646-3105 (part of M-646-7026)
Model Manager.	MTU 4034, NAMTRAMARU MCAS Cherry Point, North Carolina
Description.....	This course provides training to USMC ordnance personnel, including: • Basic theory • Safety precautions • Technical publications • Missile/launcher reporting procedures Upon completion, the student will have sufficient knowledge/theory to be able to work on ordnance/armament in the MALS environment.
Locations	MTU-4034 NAMTRAMARU MCAS Cherry Point, North Carolina
Length.....	75 days
RFT date	Currently available
Skill identifier...	MOS 6541
TD/TTE	DATM-9X, AN/GYQ-79, TTU-574/E24A, ASX-315, CNU-609/E, CNU-644/E, CNU-645/E, LAU-7D/A, LAU-127A/A, LAU-115A/A, A/E37T-35
Prerequisite	C-646-2011 Aviation Ordnanceman Common Core Class A1

Title	**Strike Armament Systems Intermediate Maintenance**
CIN	C-646-3118 (part of D/E-646-7001)
Model Manager.	MTU 4033, NAMTRAU, NAS North Island
Description.....	This course provides training to Aviation Ordnance Technicians, including: • Operational checkout procedures • Corrosion control • Troubleshooting procedures • Periodic maintenance procedures • Component removal, repair, replacement procedures • Use of special tools and test equipment • Use of publications • Use of safety and administrative procedures applicable to aircraft armament equipment items Upon completion of this course, the student will be able to perform work on aircraft armament equipment in the Aircraft Intermediate Maintenance Department environment under limited supervision.
Locations	MTU 4032, NAMTRAU, NAS Norfolk MTU 4033, NAMTRAU, NAS North Island
Length.....	65 days
RFT date	Currently available
Skill identifier...	AO 6802
TD/TTE	LAU-7D/A, LAU-127A/A, LAU-115A/A, A/E37T-35
Prerequisite	Graduate of AO "A" School or designated AO striker

Title	**Air Launched Weapons Ordnance Supervisor**
CIN	C-646-4108 (part of D/E-646-7007)
Model Manager.	MTU 4032, NAMTRAU, NAS Norfolk
Description.....	This course provides training to the second tour Aviation Ordnancemen, including: • Introduction to Weapons Department Administration, • Introduction to Improved Rearming Rate System (IRRS), Magazines and Armament/Weapons Support Equipment, • Air Launched Weapons Configurations and Equipment • Introduction to Rockets, Cluster Bombs, Mines and Sound Underwater Signals • Introduction to Pyrotechnics, Linkless Ammunition Loading System (LALS) and Missiles Upon completion of this course, officers and senior enlisted personnel will have sufficient knowledge of NAS, CV/CVN and Amphibious Aviation Ordnance administration and the IRRS, including all conventional munitions, associated equipment, magazines, handling procedures and related safety precautions to perform as supervisors on a NAS, CV/CVN or Amphibious Weapons Department.
Locations	MTU 4030, NAMTRAGRUDET, NS Mayport MTU 4032, NAMTRAU, NAS Norfolk MTU 4033, NAMTRAU, NAS North Island MTU 4035, NAMTRAU, NAS Whidbey Island
Length.....	17 days
RFT date	Currently available
Skill identifier...	AO 6801
TD/TTE	NA
Prerequisite	Graduate of AO (ClassA1) School or equivalent and E4-E7

Title	**Weapons Department General Aviation Ordnance**
CIN	C-646-4109 (stand-alone course)
Model Manager.	MTU 4033, NAMTRAU NAS North Island
Description.....	This course provides training to the first tour Aviation Ordnancemen, Gunner's Mates and Torpedoman's Mates, including: • Basic theory • Safety precautions • Technical publications • Missile reporting procedures • Introduction to Weapons Department, Ammunition Magazines, Shoring, Stowage and Handling Equipment • Introduction to Air Launched Weapons Upon completion of this course, the Aviation Ordnanceman assigned to Shipboard, Shoreboard, and Shore Combatant Weapons Departments as conventional weapons handlers, will have the sufficient knowledge and skills of procedures and safety requirements for receiving, transferring and storing conventional weapons, assembly and disassembly of bombs and rockets, loading and unloading flare and rocket launchers and the linkless ammunition loading system, and the canning and decanning of miscellaneous ordnance, in accordance with applicable publications, while working under minimum supervision in a shipboard or shore environment.
Locations	MTU 4030, NAMTRAGRUDET, NS Mayport MTU 4032, NAMTRAU, NAS Norfolk MTU 4033, NAMTRAU, NAS North Island MTU 4035, NAMTRAU, NAS Whidbey Island
Length.....	10 days
RFT date	Currently available
Skill identifier...	N/A
TD.....	DATM-9X, CNU-609/E
Prerequisite.....	AO, GM, TM, or Graduate of AO (ClassA1) School or equivalent or designated striker

(5) Explosive Ordnance Disposal Training. EOD training is conducted at the NAVSCOLEOD at Eglin Air Force Base, Florida. EOD Training and Evaluation Unit (EODTEU) One at San Diego California and EODTEU Two at Fort Story Virginia provide additional advanced and specialized EOD training.

(a) Training Devices. TDs required for EOD training are the Practical Explosive Ordnance Disposal System Trainer (PEST) and the Classroom Explosive System Trainer (CEST).

- **Practical Explosive Ordnance Disposal System Trainer.** The AIM-9X PEST is a full-scale model of the AIM-9X, containing inert versions of all explosive train components. The AIM-9X PEST possesses the same weight and center of gravity characteristics as the tactical missile. The AIM-9X PEST is used to teach and practice the AIM-9X RSP. It is used in the identification line, the outdoor practice area, and the outdoor test area. For further details on TDs see element IV.A.2.

- **Classroom Explosive Ordnance Disposal System Trainer.** The AIM-9X CEST is an inert, cut-away model of the AIM-9X, displaying locations and types of explosive and hazardous materials, initiators, igniters, and fuze. It is used during classroom instruction to facilitate familiarization of the AIM-9X missile and its associated RSP. For further details on TDs see element IV.A.2.

- **Inert Telemetry Section**. Although not required, at the request of the EOD School Raytheon and PMA-259 were able to supply an inert, declassified telemetry section.

(b) Courses. AIM-9X is taught in the following EOD training courses. The AIM-9X RSPs have been incorporated in these courses with minimal impact. The AIM-9X training material did not change student throughput or chargeable student billets, and, therefore, these courses will not appear in Parts II and III.

Table I-6. EOD Courses

COURSE NUMBER	COURSE TITLE	AIM-9X RFT DATE
A-431-0011	Explosive Ordnance Disposal (EOD) Phase II (Navy)	April 03
A-431-0012	Explosive Ordnance Disposal (EOD) Phase II	April 03
G-431-0001	EOD Pre-deployment Team Training	April 03

c. Student Profiles. The following table lists the enlisted manpower and personnel classifications required to support AIM-9X. In many instances, AO personnel who will support AIM-9X will not possess the component NEC because they attained their primary NEC prior to the recent A School and C School changes.

Table I-7. AIM-9X Student Profiles

RATING and NEC or MOS	TITLE	TRAINING TRACK REF.
AO 8841	F/A-18E/F Armament System Organizational Apprentice Maintenance Technician	Figure I-2
AO 8341	F/A-18E/F System Organizational Maintenance Technician	Figure I-2
AO 8842	F/A-18 Armament System Organizational Apprentice Maintenance Technician	Figure I-3
AO 8342	F/A-18 System Organizational Maintenance Technician	Figure I-3
AT 8842	F/A-18 Armament System Organizational Apprentice Maintenance Technician	Figure I-4
AT 8342	F/A-18 System Organizational Maintenance Technician	Figure I-4
6531	Aircraft Ordnance Technician (F/A-18)	Figure I-5
6541	Aviation Ordnance Intermediate Maintenance Technician	Figure I-6
AO 6801	Air Launched Weapons Technician	Figure I-7
AO 6802	Strike Intermediate Armament Maintenanceman	Figure I-8

d. Training Pipelines. New training tracks were not required for AIM-9X. The training pipelines and tracks shown in Figures I-2 through I-7 correspond to the student profiles listed above. These pipelines and tracks are based on the training system that is in place today, and may not reflect actual progressions for personnel who completed formal training prior to the recent A School and C School changes. Shaded courses are affected by introduction of the AIM-9X. Introduction of the AIM-9X did not affect any organizational- or intermediate-level maintenance functions. Training tracks and associated courses are available in the OPNAV Aviation Training Management System (OATMS). The following training tracks apply and are listed in OATMS.

AO 0000	→	AO 8841	→	AO 8341
Aviation Ordnanceman Class A1		F/A-18E/F Systems Organizational Apprentice Maintenance Technician		F/A-18E/F Systems Organizational Maintenance Technician
USN Strand		TRACK E-646-0642		TRACK E-646-0644
C-646-2011 C-646-2012		C-600-3601 C-646-9976		C-600-3601 C-646-9975

Figure I-2. USN F/A-18E/F Systems Organizational Maintenance Technician Career Progression

AO 0000	→	AO 8842	→	AO 8342
Aviation Ordnanceman Class A1		F/A-18 Systems Organizational Apprentice Maintenance Technician		F/A-18 Systems Organizational Maintenance Technician
USN Strand		TRACK D/E-646-0654		TRACK D/E-646-0641
C-646-2011 C-646-2012		C-600-3601 C-646-9973 D/E-646-0640		C-600-3601 C-646-9974

Figure I-3. USN F/A-18A/B/C/D Systems Organizational Maintenance Technician Career Progression

AT 0000	→	AT 8842	→	AT 8342
Aviation Electronics Tech. Class A1		F/A-18 Systems Organizational Apprentice Maintenance Technician		F/A-18 Systems Organizational Maintenance Technician
USN Strand		TRACK D/E-602-0652		TRACK D/E-646-0630
C-100-2018		C-600-3601 C-102-9964		C-600-3601 C-102-9963

Figure I-4. F/A-18A/B/C/D Aviation Electronics Technician Systems Organizational Maintenance Career Progression

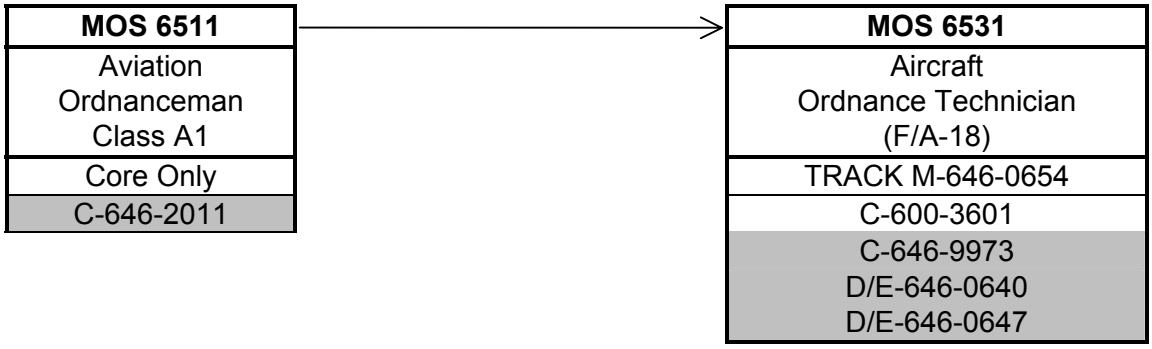

Figure I-5. USMC F/A-18 Aircraft Ordnance Technician Career Progression

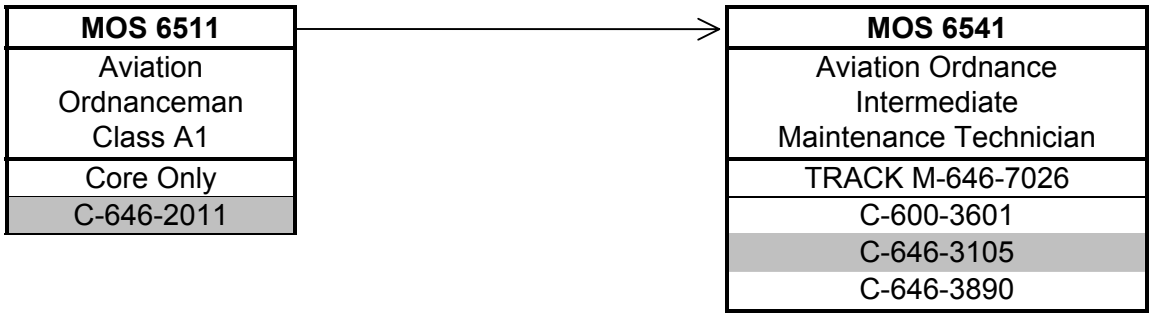

Figure I-6. Aviation Ordnance Intermediate Maintenance Technician Career Progression

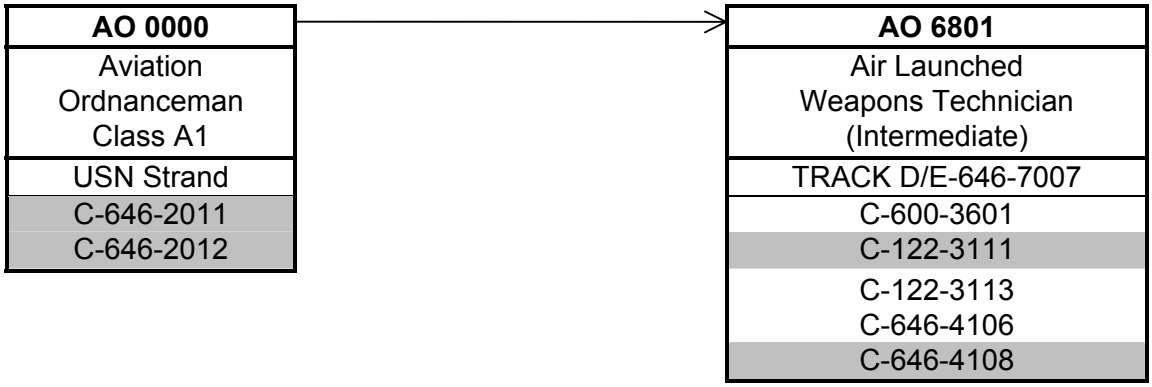

Figure I-7. Air Launched Weapons Technician Career Progression

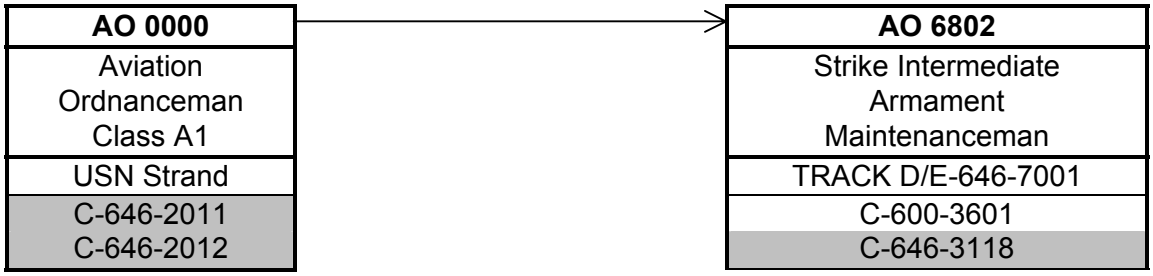

Figure I-8. Strike Intermediate Armament Maintenanceman Career Progression

e. Training Effectiveness Evaluations. An individual Training Effectiveness Evaluation (TEE) plan is not required for Sidewinder AIM-9X courses. For air-launched weapons, the TEE is addressed by each user community as follows.

(1) Aircrew/pilot Training. The Strike Fighter Training Program (SFTP) (see paragraph I.1.c) drives training and readiness for aircrew/pilot weapons employment. Within this program, various means are used to evaluate training effectiveness including events from the Training & Readiness (T&R) matrix. These events include Sidewinder employment, both captive carry and live fire, and are used to evaluate the combat readiness of aircrew, squadron and air wing. See the SFTP NTSP, N88-NTSP-A-50-9906, for more information. The training effectiveness of Sidewinder employment is further evaluated during Fleet and Joint-Service exercises, e.g., Marine Corps Combat Readiness Evaluation (see paragraph I.3.c), Joint Training Exercise (JTX), etc. Ultimately, when significant training deficiencies are identified, they are communicated at the annual Naval Aviation Training Systems Advisory Group (NATSAG) meetings and prioritized.

(2) Squadron/Organizational-level Maintenance. AOs at the organizational-level use several training effectiveness tools. The first tool is the Conventional Weapon Technical Proficiency Inspection (CWTPI) (see paragraph I.3.b). These inspections evaluate how well the individual, load crew, and squadron perform weapon loading. The second tool is the Explosive Handling Qualification and Certification Program (see paragraph I.3.d). The program is implemented to minimize the probability of mishap. The potential for personnel errors are controlled through training (qualification) coupled with a management process designed to prevent inadequately trained personnel from performing ammunition and explosives jobs/tasks (certification). Ultimately, the Maintenance Training Improvement Program (MTIP) (see paragraph I.1.a), Marine Aviation Training Management Evaluation Program (MATMEP) (see paragraph I.3.a), and Aviation Maintenance Training Continuum System (AMTCS) (see paragraph I.1.b) are used to collect data and identify training deficiencies.

(3) Weapons Department/Intermediate-level Maintenance. AOs at the intermediate-level use several training effectiveness tools. The first tool is the Explosive Handling Qualification and Certification Program (see paragraph I.3.d). The program is implemented to minimize the probability of mishap. The potential for personnel errors are controlled through training (qualification) coupled with a management process designed to

prevent inadequately trained personnel from performing ammunition and explosives jobs/tasks (certification). Ultimately, the Aviation Maintenance Training Continuum System (AMTCS) (see paragraph I.1.b) is used to collect data and identify training deficiencies. Additionally, courses go through an annual Formal Course Review (FCR) and are further improved via the Training Feedback System.

I. ON-BOARD (IN-SERVICE) TRAINING

1. Proficiency or Other Training Organic to the New Development

a. Maintenance Training Improvement Program. The Maintenance Training Improvement Program (MTIP) is used to establish an effective and efficient training system responsive to fleet training requirements. MTIP is a training management tool that, through diagnostic testing, identifies individual training deficiencies at the organizational and intermediate levels of maintenance. MTIP is the comprehensive testing of one's knowledge. It consists of a bank of test questions managed through automated data processing. The Deputy Chief of Staff for Training assisted in development of MTIP by providing those question banks (software) already developed by the Navy. MTIP was implemented per OPNAVINST 4790.2 series. MTIP allows increased effectiveness in the application of training resources through identification of skills and knowledge deficiencies at the activity, work center, or individual technician level. Refresher training is concentrated where needed to improve identified skill and knowledge shortfalls. The Aviation Maintenance Training Continuum System (AMTCS) will replace MTIP. AMTCS completed Beta version review/test of the E-2/C-2, F-14 and F/A-18 curricula.

COMNAVAIRPAC has discontinued using MTIP. They are currently using maintenance data products as a source to determine maintenance training deficiencies until AMTCS is implemented.

Question banks for AIM-9X will be developed from training material incorporated into the organizational and intermediate level follow-on training courses. Suggested questions will be provided with the initial training material packages, however, CNATT and SFWS will ultimately control the final question bank content.

b. Aviation Maintenance Training Continuum System. AMTCS will provide career path training to the Sailor or Marine from their initial service entry to the end of their military career. AMTCS is planned to be an integrated system that will satisfy the training and administrative requirements of both the individual and the organization. The benefits will be manifested in the increased effectiveness of the technicians and the increased efficiencies of the management of the training business process. Where appropriate, capitalizing on technological advances and integrating systems and processes can provide the right amount of training at the right time, thus meeting the CNO's mandated "just-in-time" training approach.

Technology investments enable the development of several state-of-the-art training and administrative tools: Computer-Based Training (CBT) for the technicians in the Fleet in the form of Interactive Courseware (ICW) with Computer Managed Instruction (CMI) and Computer Aided Instruction (CAI) for the schoolhouse.

Included in the AMTCS development effort is the Aviation Maintenance Training Continuum System - Software Module (ASM), which provides testing [Test and Evaluation (T&E)], recording [Electronic Training Jacket (ETJ)], and a Feedback system. The core functionality of these AMTCS tools are based and designed around the actual maintenance-related tasks the technicians perform, and the tasks are stored and maintained in a Master Task List (MTL) data bank. These tools are procured and fielded with appropriate COTS hardware and software, i.e., Fleet Training Devices (FTD) - Laptops, PCs, Electronic Classrooms (ECR), Learning Resource Centers (LRC), operating software, and network software and hardware.

Upon receipt of direction from OPNAV (N00T), AMTCS is to be implemented and the new tools integrated into the daily training environment of all participating aviation activities and supporting elements. AMTCS will serve as the standard training system for aviation maintenance training within the Navy and Marine Corps, and is planned to supersede the existing MTIP and Maintenance Training Management and Evaluation Program (MATMEP) programs.

The Ammunition and Explosive Handling Qualification and Certification (QUAL/CERT) Program requires periodic, local QUAL/CERT events to be documented in a QUAL/CERT Record. These QUAL/CERT Records will be maintained physically at the local activity, but will be entered electronically into the ETJ for tracking purposes.

c. Strike Fighter Training Program. NSAWC, which includes Topgun (N7), SFWSL, SFWSP, and the Strike Weapons and Tactics School Atlantic (SWATSLANT), has developed post-FRS training at the squadron level for Navy Strike Fighter aircraft (F-14 and F/A-18). This post-FRS training continuum is known as the SFTP, and is composed of three equally critical elements: The SFWT curricula, the SFTI, and the SFTS. The SFWT curricula are taught by each squadron's SFTI, who is supported by the SFTS, a multimedia computer-based training system that hosts CMI, CAI, CBT and ICW. Aircrew weapons proficiency training continue to be accomplished using existing methods: Academic, Simulator (WTT/Weapon Systems Trainer (WST)), CATM and/or embedded aircraft simulation, and NCEA; but capability ratings will be performance-based rather than completion-based, i.e., it will not be based simply upon completing the training events, but upon how well they are completed. Training events will be measured using defined metrics, and collectively these events will be evaluated to determine actual combat readiness, quantitatively (objectively) rather than qualitatively (subjectively).

2. Personnel Qualification Standards. Not Applicable (NA).

3. Other On-Board or In-service Training Packages

a. Marine Aviation Training Management Evaluation Program. Marine Corps on-board training is based on the current series of MCO P4790.12, Individual Training Standards System and Marine Aviation Training Management Evaluation Program (MATMEP). This program is designed to meet Marine Corps, as well as Navy OPNAVINST 4790.2 (series), maintenance training requirements. It is a performance-based, standardized, level-progressive training management and evaluation program. It identifies and prioritizes task inventories by MOS through a front-end analysis process that identifies task, skill, and knowledge requirements of each MOS. MTIP questions coupled to MATMEP tasks help identify training deficiencies that can be addressed with remedial training. (AMTCS is planned to replace MATMEP.)

b. Conventional Weapon Technical Proficiency Inspection. The Conventional Weapon Technical Proficiency Inspection (CWTPI) is a graded inspection administered by Strike Fighter Wing (STRKFTRWING). It is governed by the policy and procedures established by each Type Commander (TYCOM). The inspection team is made up of SFWS instructors under the direction of the Wing Ordnance Officer. The CWTPI covers all areas of conventional weapon load and release, and control systems checks. The inspection evaluates the squadron's ability to wire-check, upload and download conventional ordnance correctly, use applicable publications, and place ordnance on its designated target. The squadron inspection is conducted annually, six months prior to deployment, or at the request of the squadron's Commanding Officer. All personnel, including squadron pilots, directly involved in the inspection, require a written examination. A 72-hour time limit is granted for the completion of the entire evolution. The final grade is an average score derived from the written exams, ordnance loads, wire checks, and the pilot's proficiency to deliver weapons on target. Pre-inspection training is provided by the appropriate SFWS followed by the CWTPI. The CWTPI determines the need for further conventional weapons load training of squadron AO and AT personnel at the appropriate SFWS.

c. Marine Corps Combat Readiness Evaluation. Marine Corps Headquarters schedules the USMC fighter and attack wings for a yearly Combat Readiness Evaluation. This is part of the Marine Corps Combat Readiness Evaluation System. An entire Marine Corps activity is moved to another location to participate in war exercises and to be evaluated. Training is an on-going Marine Corps evolution that culminates with the Combat Readiness Evaluation. The evaluation determines the need for further conventional weapons load training of squadron personnel.

d. Marine Corps Weapons and Tactics Instruction. Marine Aviation Weapons and Tactics Squadron One (MAWTS-1) at MCAS Yuma provide a Program Of Instruction (POI) for Weapons and Tactics Instructors (WTIs). The POI is aircraft model/type dependent; there are POI for fixed wing, e.g., F/A-18, and rotary wing, e.g., AH-1, aircraft. The F/A-18 POI is similar to the Navy SFTI curricula provided by NSAWC (Topgun) at NAS Fallon.

e. Explosive Handling Qualification and Certification Program. The Ammunition and Explosive Handling Qualification and Certification (QUAL/CERT) Program is implemented by OPNAVINST 8020.14 and Marine Corps Order (MCO) P8020.11. To minimize the probability of mishap, the potential for personnel errors are controlled through training (qualification) coupled with a management process designed to prevent inadequately trained personnel from performing ammunition and explosives jobs/tasks (certification). Aviation Ordnancemen are required to perform periodic, local QUAL/CERT events in order to be authorized to handle ordnance. Results of these QUAL/CERT events are documented in a hardcopy QUAL/CERT Record and kept on file by the local activity.

J. LOGISTICS SUPPORT

1. Manufacturer and Contract Numbers. In December 1994, two contractors, Raytheon Missile Systems Division and HMSC, were awarded DEM/VAL contracts. Both contracts were completed by July 1996. The E&MD contract, N00019-97-C-0027, was awarded to HMSC in January 1997. HMSC later merged with and became RMS. This contract has four LRIP lots; LRIP lots 1-3 have been exercised. Currently, RMS is making deliveries on the LRIP Lot 2 option.

2. Program Documentation

a. Single Acquisition Management Plan. The AIM-9X Sidewinder Single Acquisition Management Plan (SAMP) was prepared by PMA259 prior to the Milestone II decision and approved 3 December 1996 in an effort to streamline program documentation. It contains all essential program information. The AIM-9X SAMP was updated for the LRIP I milestone decision and approved in August 2000. It was updated once again in July 2003 for the LRIP Lot 4 and Milestone III decisions and approved in May 2003. Refer to item I.M for other related documents.

b. Product Support Management Plan. The AIM-9X Sidewinder ALSP, document number MS-371, was prepared by AIR-3.1.1L and was approved 25 January 1999. The ALSP was updated for the LRIP milestone decision and approved in August 2000. The AIM-9X PSMP is a Joint USN/USAF document that satisfies the requirements set forth in AFPD 20-5, AFI 63-107, and the Department of the Navy Performance Based Logistics Implementation Plan (PBL). It superceded the ALSP, and essentially is an update to it, retaining the document number MS-371. The PSMP revision A was approved December 2001. The Sidewinder Program Office updated the AIM-9X PSMP in preparation for the LRIP Lot 4 decision in September 2003 and the Milestone III decision in February 2004.

3. Technical Data Plan. Technical data associated with the AIM-9X Missile Program is in compliance with the Continuous Acquisition Life-cycle Support strategy. Most AIM-9X program data is available in digital format. RMS has setup their version of a Contractor Integrated Technical Information Service (CITIS), which is called the Program Document

Management (PDM) system. PDM provides authorized AIM-9X personnel access to all unclassified contract data requirements, which includes training curricula and technical manuals. Additionally, RMS has setup a secure website for accessing AIM-9X information and training data. The Naval Air Technical Data & Engineering Service Command (NATEC) website has all approved AIM-9X unclassified technical manuals available on its website for download.

4. Test Sets, Tools, and Test Equipment

a. Organizational-level Maintenance

(1) Tools. The AIM-9X is delivered to the flight line/deck as an AUR with its wings and fins installed. It does not require any new or peculiar tools for organizational-level maintenance. Common tools, such as speed wrenches, are required to complete missile/launcher loading and to install the buffer connector when applicable.

(2) Test Sets and Test Equipment. The AIM-9X requires release and control checks for its launchers and a post-loading BIT check via the cockpit controls and displays. Other tests for the AIM-9M, such as the AIM-9M Missile-On-Aircraft-Test (MOAT) using the TTU-304/E, are not be required because of the AIM-9X's digital characteristics.

(a) AN/AWM-100. The LAU-7D/A launcher requires a release and control check once it is installed on the F/A-18C/D aircraft. Organizational-level maintenance activities use the modified AN/AWM-100, part number 74D750051-1007, to test LAU-7D/A and aircraft circuits prior to loading the AIM-9X missile. The AN/AWM-100, part number 74D750051-1003, is the configuration of the AN/AWM-100 which requires modification to the 74D750051-1007 configuration. The necessary modification can be found in SEC 5578. The modified AN/AWM-100 will support AIM-9X IOC until the upcoming AN/AWM-103 is fielded. When the AN/AWM-103 is fielded, this NTSP will be updated accordingly. Refer to item I.G.4.a for more information.

b. Intermediate-level Maintenance

(1) Tools. The AIM-9X is delivered to the magazine in its AUR container, CNU-609/E, with its wings and fins installed. The AUR container can hold up to four AIM-9X missiles. The AIM-9X does not require any new or peculiar tools for intermediate-level maintenance. Common tools, such as torque wrenches, are required to remove/replace field-replaceable components when applicable.

(2) Test Sets and Test Equipment

(a) AN/GYQ-79 CMBRE and TTU-574/E24A AIM-9X TPS. The AIM-9X requires the AN/GYQ-79 CMBRE together with the AIM-9X TPS to perform in-container and out-of-container BIT and missile software reprogramming. The AIM-9X TPS is commonly referred to as "Box 4" because it adds a fourth box to the three boxes that contain the

components of the baseline CMBRE. The AIM-9X TPS contains two PC cards, a switch box and cables, including a cable for connecting the CMBRE to the CNU-609/E in-container cable, another for connecting CMBRE to either the forward or mid-body umbilical on the missile, and two self-test cables. Using the CNU-609/E in-container cable connection allows up to four missiles to be connected simultaneously to CMBRE for BIT and reprogramming, although only one missile can be tested/reprogrammed at a time. The two PC cards are placed in the Digital Computer Set during BIT and reprogramming procedures. One PC card contains the missile software and the program to load it into the missile. It is classified secret and thus makes the BIT and reprogramming procedures classified. The other PC card can store missile BIT data if the user chooses to download it from missile memory and is unclassified. The AIM-9X CMBRE TPS is being procured from RMS via the LRIP contract options. Refer to item I.G.4.c for more information.

(b) A/E37T-35 CRALTS. Intermediate-level maintenance for the launchers is performed with the existing A/E37T-35 CRALTS, which requires modification to include LAU-7D/A test capability. CRALTS is used to test the LAU-7A/A launcher and requires modification to test the LAU-7D/A launcher. The necessary software modification can be found in SCC 3070. The necessary hardware modification can be found in SEC 5573. Refer to item I.G.4.b for more information.

c. Depot-level Maintenance. RMS will be responsible for depot-level maintenance and associated tools, test sets, and equipment.

5. Repair Parts. Repair parts for the CATM-9X and DATM-9X (as well as the AIM-9X and CNU-609/E) were addressed during the AIM-9X provisioning process. Provisioning of consumable repair parts are being procured through the Naval Inventory Control Point. The MSD is projected to be attained in June 2004. Prior to MSD, LRIP spares were procured from RMS for all replaceable and consumable repair parts. Parts for the training missile configurations and the AIM-9X TPS include:

AUR/CATM/DATM

Part Number	Nomenclature
2212601-4	Harness Cover, Fwd
2212612-1	Cover, Mid body
2212614-2	Mid-Body Buffer
2212618-2	Standoff Harness Cover
22126452-1	Fin, Assembly
2212649-1	Wing, Fwd Assembly
2212653-1	Screw, Wing
2212671-1	Cable, Umbilical
2212790-1 and -2	Harness Cover, Aft
2213080-3	Safe-Arm Handle
2215311-1	Umbilical Cap, Protective
2215362-1	Screw, Fin
2215365-1	Fairing, Fwd Hangar

2215441-2 and -3	Cover, Dome
2215442-1	Cover, TD
2215700	Decal, Fwd Harness
60464B20036	Label, Safe-Arm

CNU-609/E

Part Number	Nomenclature
48B7385	Ring, Tiedown
A-A59561-40064	Shim
AYC0006	Kit, Latch Assembly
BP18WCL10	Cap
BP20WOTL10	Cap
MS17990C830	Pin, Quick Release
MS9021-025	Packing, Preformed
PEFV007	Seal, Port Cover
PEFV008	Seal, Rubber
PHBP001	Screw
PPVV035	Plate, Name
TA-356-40	Window, Humidity
TA-356-HC-40	Disc, Color Change
TA-770-10-10R	Relief Valve

TTU-574/E24A – TPS	Nomenclature
3000843	Cable, W-9 (missile)
3000844	Cable, W-10, Self-Test W9 Fwd
3000845	Cable, W-11, Self-Test W9 Mid-body
3000846	Cable, W-12 (container)
3000847	Cable, W-13, Self-Test W12
3000855	Switch Box

6. Human Systems Integration. The original Human Systems Integration Plan (HSIP) for the AIM-9X was approved in July 1994, and revised throughout DEM/VAL. Following DEM/VAL, but prior to the Milestone II decision, the HSIP was incorporated into the SAMP, which was approved 3 December 1996, then later revised and approved 3 March 1997, and again August 2000. The only unique human systems integration challenge that faced the AIM-9X was integration with the JHMCS. The JHMCS required more pilot interaction in the search and acquisition of targets. However, this additional task was well within the current Navy, Marine Corps, and Air Force operator capability. The Joint Interface Control Working Group addressed this issue. Lessons learned in DT&E and OT&E evolved this facet of aircrew training. Missile status tones used in AIM-9X very closely approximate those used for AIM-9M and provide a simple transition for the aircrew; however, some tone modifications were necessary because AIM-9X is capable of employment where AIM-9M and prior Sidewinder missiles were not. For example, in certain aircraft/missile employment regimes, the AIM-9X "synthetic" tones duplicate or are very similar to previous AIM-9M tones, but do not represent the same tactics/threat situation. In these situations tone modifications were necessary.

K. SCHEDULES

1. Schedule of Events

a. Installation and Delivery Schedules. The Defense Acquisition Board (DAB) gave approval to the AIM-9X LRIP Lot 1 decision in September 2000, Lots 2 and 3 in September 2001 and LRIP Lot 4 in September 2003. The DAB will convene in February 2004 for the MS-III decision.

(1) AIM-9X. LRIP deliveries are scheduled for 21, 24, 27 and 30 months after each LRIP option is exercised. The LRIP Lot 1 option was approved in September 2000 and was awarded (to RMS) in November 2000. AIM-9X deliveries on LRIP Lot 1 are complete and LRIP Lot 2 deliveries are underway.

(2) Digital Wingtip Modification. The F/A-18C/D Digital Wingtip Modification, ECP 582, has been approved. Contracts for modification kits were awarded to Boeing and they began delivery/installation in August 2002. SEC 5578 includes the related changes to the AN/AWM-100.

(3) LAU-7D/A. The ECP for the LAU-7D/A has been approved and modifications are underway. Two changes, SEC 5573 and SCC 3070, include the related changes to the A/E37T-35 CRALTS. Initial quantity modification kits for the LAU-7D/A and A/E37T-35 CRALTS have been procured and installations began in July 2002. MTU 4033 received their LAU-7D/A in November 2003. The AO "A1" School and MTUs 4032 and 4034 are expected to receive their LAU-7D/A in February 2004.

(4) TTU-574/E24A. LRIP deliveries are scheduled for 21, 22, 23, 24 and 25 months after each LRIP option (Lot 1, Lot 2, and Lot 3) is exercised. The LRIP Lot 1 option was approved in September 2000 and was awarded (to RMS) in November 2000. TTU-574/E24A deliveries on LRIP Lots 1 and 2 are complete. MTUs 4030, 4032, 4033, 4034 and 4035 have received their TTU-574/E24A.

(5) CNU-609/E. LRIP deliveries of AIM-9X, CATM-9X and DATM-9X are made using the AUR container, CNU-609/E. The AO "A1" School and MTUs 4030, 4032, 4033, 4034 and 4035 have received their CNU-609/E with the delivery of their DATM-9X assets.

b. Ready For Operational Use Schedule. The AIM-9X is Ready For Operational Use (RFOU) by the operational activity upon receipt of AUR missiles. Normally, activities receive AIM-9X upon deployment aboard aircraft carriers (CV/CVN) that have AIM-9X loadouts. Thus, the RFOU schedule is dependent upon the AIM-9X LRIP schedule and CV/CVN deployment schedules for FY03 and beyond. As the AIM-9X inventory grows, other activities will receive AIM-9X. See Element II.A.1.a of this NTSP for the notional operational and fleet support activity activation schedule.

c. Time Required to Install at Operational Sites. Because the AIM-9X is delivered and received as an AUR missile, there is no time requirement to install AIM-9X. Implementation of ECP 582 (Digital Wing Tip) on the F/A-18C/D aircraft is averaging 48 hours.

d. Foreign Military Sales and Other Source Delivery Schedule. Switzerland, Poland and South Korea have begun the process of buying AIM-9X. As delivery schedules for these FMS cases become available, they will be included in this NTSP.

e. Training Device and Delivery Schedule. DATM, CEST, and PEST deliveries for LRIP Lot 1 and 2 are completed. CATM Lot 1 deliveries began in May 2002. Element IV.A.2 of this NTSP lists the USN and USMC TD requirements by activity. The quantities for the first three LRIP lots are shown below.

TRAINING DEVICE	LRIP Lot 1	LRIP Lot 2	LRIP Lot 3
CATM-9X	15	45	56
DATM-9X	10	12	6
CEST-9X	1	0	0
PEST-9X	6	0	0

(1) CATM-9X. CATM-9X deliveries are being made during LRIP lots and Full-rate Production lots. LRIP CATM deliveries are scheduled for 21, 24, 27 and 30 months after each LRIP option is exercised. CATM-9X LRIP Lot 1 deliveries are complete and LRIP Lot 2 deliveries are underway. The CATM-9X requirements listed in part IV.A.2 represent Navy and Marine Corps F/A-18 requirements only. Other aircraft platforms that may be integrated with AIM-9X during Follow-on Test and Evaluation would require additional CATM-9X assets to support proficiency training conducted by the associated operational squadrons. The 1116 CATM-9Xs represent an 86% asset readiness objective, for a total of 1298 CATM-9X for the F/A-18 community. Refer to part IV.A.2 for a detailed list of CATM-9X requirements by squadron.

(2) DATM-9X. DATM-9X Lot 1 and 2 deliveries are complete and have satisfied requirements for all schools and most Inter-Deployment Training Cycle (IDTCs) activities. DATM-9X LRIP Lot 3 deliveries will be sent to one IDTC activity (MALS-31) and four Reserve squadrons to support QUAL/CERT requirements. Refer to part IV.A.2 for a detailed list of DATM-9X requirements by activity.

(3) CEST-9X and PEST-9X. LRIP CEST and PEST deliveries are complete. Refer to part IV.A.2 for a detailed list of CEST-9X and PEST-9X requirements by activity.

L. GOVERNMENT FURNISHED EQUIPMENT AND CONTRACTOR FURNISHED EQUIPMENT TRAINING REQUIREMENTS. NA.

M. RELATED NTSPs AND OTHER APPLICABLE DOCUMENTS

DOCUMENT TITLE	DOCUMENT NUMBER	PDA CODE	STATUS
Advanced Sidewinder Missile AIM-9X Cost Analysis Requirements Document (CARD)	No Number Assigned	PMA259	Approved Feb 04
AIM-9M-8 NTSP	N78-NTSP-A-50-8105C/A	PMA205	Approved June 02
AIM-9X Single Acquisition Management Plan for the AIM-9X	No Number Assigned	PMA259	Approved 5/3/03
F/A-18 Weapons System NTSP	N88-NTSP-A-50-7703H/A	PMA265	Approved Dec 01
Navy and Air Force ILSP for Sidewinder AIM-9M	ILSP MS-059	AIR-3.1.1L	Approved Dec 93
Navy and Air Force PSMP for Sidewinder AIM-9X	MS-371 Revision B	AIR-3.1.1L	Approved Aug 03
Strike Fighter Training Program NTSP	N88-NTSP-A-50-9906/A	PMA205	Approved May 02
Test and Evaluation Master Plan (TEMP) for AIM-9X Sidewinder Missile	1412 Revision C	PMA259	Approved 7/28/00
Test and Evaluation Master Plan (TEMP) for AIM-9X Sidewinder Missile	1412 Revision D	PMA259	In Signature Cycle

PART II - BILLET AND PERSONNEL REQUIREMENTS

The following elements are not affected by the AIM-9X and, therefore, are not included in Part II of this NTSP:

II.A. Billet Requirements

- II.A.2.a. Operational and Fleet Support Activity Deactivation Schedule
- II.A.2.b. Billets to be Deleted in Operational and Fleet Support Activities
- II.A.2.c. Total Billets to be Deleted in Operational and Fleet Support Activities

II.B. Personnel Requirements

- II.B.3. Foreign, Other Service, and Non-Military Personnel Annual Training Input Requirement

NOTE 1: This section of the AIM-9X NTSP reflects intermediate-level maintenance billet and personnel requirements for the AIM-9X. It is a compilation of two Navy NECs, AO 6801 and AO 6802, and one Marine Corps MOS, 6541. AIM-9X operator billets are programmed through the applicable aircraft NTSP, e.g., F/A-18 NTSP, as are the AIM-9X organizational-level billets. The addition of the AIM-9X to the intermediate-level workload is only a small percentage of the required workload for those NECs and MOS. The NECs and MOS are not dedicated to the AIM-9X and, therefore, the overall training throughput for the NEC and MOS will remain the same, i.e., it accounts for the total NEC/MOS community, and not just activities receiving AIM-9X.

NOTE 2: All billets identified in this section are programmed through other NTSPs, e.g., F/A-18 NTSP, applicable CV/CVN Class Total Ship NTSP, or applicable Shore Activity Manning Documents. The activities and associated billets are listed to assist the weapons training community in identifying and managing training requirements throughout the development, production, and deployment of the AIM-9X.

PART II - BILLET AND PERSONNEL REQUIREMENTS

II.A. BILLET REQUIREMENTS

II.A.1.a. OPERATIONAL AND FLEET SUPPORT ACTIVITY ACTIVATION SCHEDULE

SOURCE: NAVAIR PMA259/PMA205, AIRPAC/AIRLANT **DATE:** 01/2004

ACTIVITY	UIC	PFYs	CFY04	FY05	FY06	FY07	FY08
OPERATIONAL	**NAVY**						
NAVWPNTESTRON CL	39787	1	0	0	0	0	0
NAVWPNTESTRON PM	39788	1	0	0	0	0	0
NAVSTKAIRTESTRON	39783	1	0	0	0	0	0
VX-9	55646	1	0	0	0	0	0
NSAWC N7	69190	1	0	0	0	0	0
SFWSL	47084	1	0	0	0	0	0
SFWSP	35185	1	0	0	0	0	0
VFA-106	09679	1	0	0	0	0	0
VFA-125	09485	1	0	0	0	0	0
VFA-15	09015	0	0	1	0	0	0
VFA-34	09070	0	0	1	0	0	0
VFA-37	09478	0	1	0	0	0	0
VFA-83	09223	0	0	1	0	0	0
VFA-87	63922	0	0	1	0	0	0
VFA-105	65183	0	1	0	0	0	0
VFA-131	63934	0	0	1	0	0	0
VFA-136	55141	0	0	1	0	0	0
VFA-82	09122	0	0	1	0	0	0
VFA-86	09943	0	0	1	0	0	0
VFA-127	08956	0	0	1	0	0	0
VFA-25	09637	1	0	0	0	0	0
VFA-94	09295	0	0	1	0	0	0
VFA-97	63923	0	0	1	0	0	0
VFA-113	09092	1	0	0	0	0	0
VFA-146	09063	0	0	1	0	0	0
VFA-147	63925	0	0	1	0	0	0
VFA-151	09558	0	1	0	0	0	0
VFA-192	55179	0	1	0	0	0	0
VFA-195	09706	0	1	0	0	0	0
VFA-201	09309	0	0	0	1	0	0
VFA-203	09030	0	0	0	1	0	0
VFA-204	09032	0	0	0	1	0	0
VFC-12	52994	0	0	0	1	0	0
VFC-13	52995	0	0	0	1	0	0
VFA-122 (E/F)	09355	0	0	1	0	0	0
SWATSLANT (E/F)	47157	0	0	1	0	0	0
VFA-115 (E)	09604	0	0	1	0	0	0
VFA-14 (E)	09084	0	0	1	0	0	0
VFA-41 (F)	09774	0	0	1	0	0	0
VFA-102 (F)	09717	0	0	1	0	0	0
VFA-137 (E)	55142	0	0	1	0	0	0
VFA-2 (F)	09113	0	0	1	0	0	0
VFA-22 (E)	09561	0	0	1	0	0	0

II.A.1.a. OPERATIONAL AND FLEET SUPPORT ACTIVITY ACTIVATION SCHEDULE

SOURCE: NAVAIR PMA259/PMA205, AIRPAC/AIRLANT **DATE:** 01/2004

ACTIVITY	UIC	PFYs	CFY04	FY05	FY06	FY07	FY08
VF-154 (F)	09678	0	0	1	0	0	0
VFA-27 (E)	65185	0	0	1	0	0	0
VFA-81 (E)	09221	0	0	1	0	0	0
VFA-103 (F)	09718	0	0	1	0	0	0
VF-211	09086	0	0	0	0	1	0
VF-32	09053	0	0	0	0	1	0
TOTAL:		11	5	26	5	2	0
OPERATIONAL	**USMC**						
MAWTS-1	55167	1	0	0	0	0	0
VMFAT-101	09965	1	0	0	0	0	0
VMFA-115	09234	0	1	0	0	0	0
VMFA-122	09407	0	0	1	0	0	0
VMFA-251	09241	0	0	1	0	0	0
VMFA-312	09253	0	0	1	0	0	0
VMFA (AW)-224	01224	0	0	1	0	0	0
VMFA (AW)-332	09501	0	0	1	0	0	0
VMFA (AW)-533	09193	0	0	1	0	0	0
VMFA-212	09434	1	0	0	0	0	0
VMFA-232	09242	0	0	1	0	0	0
VMFA-314	09230	0	0	1	0	0	0
VMFA-323	09235	0	1	0	0	0	0
VMFA (AW)-121	09257	0	0	1	0	0	0
VMFA (AW)-225	09232	0	0	1	0	0	0
VMFA (AW)-242	09668	0	0	1	0	0	0
VMFA-112	08954	0	0	0	1	0	0
VMFA-134	09365	0	0	0	1	0	0
VMFA-142	67243	0	0	0	1	0	0
VMFA-321	67235	0	0	0	1	0	0
MALS Augment Beaufort	67863	0	1	0	0	0	0
MALS Augment Miramar	09116	1	0	0	0	0	0
TOTAL:		4	3	11	4	0	0
FLEET SUPPORT	**NAVY**						
NAWS Point Mugu	0429A	1	0	0	0	0	0
NAWS China Lake	68937	1	0	0	0	0	0
NAF Atsugi	62507	1	0	0	0	0	0
NAS Fallon	60495	1	0	0	0	0	0
NAS Lemoore	63042	1	0	0	0	0	0
NAS Oceana	60191	0	1	0	0	0	0
NS Roosevelt Roads	00389	0	0	1	0	0	0
COMNAVAIRLANT	57012	0	1	0	0	0	0
CV-63 USS Kitty Hawk	03363	0	1	0	0	0	0
CV-64 USS Constellation	03364	0	0	0	0	0	0
CV-67 USS Kennedy	03367	0	0	1	0	0	0
CVN-65 USS Enterprise	03365	0	0	1	0	0	0

II.A.1.a. OPERATIONAL AND FLEET SUPPORT ACTIVITY ACTIVATION SCHEDULE

SOURCE: NAVAIR PMA259/PMA205, AIRPAC/AIRLANT **DATE:** 01/2004

ACTIVITY	UIC	PFYs	CFY04	FY05	FY06	FY07	FY08
CVN-68 USS Nimitz	03368	0	0	1	0	0	0
CVN-69 USS Eisenhower	03369	0	0	1	0	0	0
CVN-70 USS Vinson	20993	0	0	1	0	0	0
CVN-71 USS Roosevelt	21247	0	0	1	0	0	0
CVN-72 USS Lincoln	21297	0	0	1	0	0	0
CVN-73 USS Washington	21412	0	0	1	0	0	0
CVN-74 USS Stennis	21847	0	0	1	0	0	0
CVN-75 USS Truman	21853	0	1	0	0	0	0
CVN-76 USS Reagan	22178	0	0	0	1	0	0
NAWMU-1	52821	0	0	0	1	0	0
NAWCAD Patuxent River	00421	0	0	0	1	0	0
NAWCWD Point Mugu	63126	0	0	0	1	0	0
TOTAL:		5	4	10	4	0	0
FLEET SUPPORT	**USMC**						
MAD China Lake	67852	0	1	0	0	0	0
MAD Patuxent River	67356	0	1	0	0	0	0
MALS-11 Miramar	09111	1	0	0	0	0	0
MALS-12 Iwakuni	09377	1	0	0	0	0	0
MALS-13 Yuma	09041	0	1	0	0	0	0
MALS-31 Beaufort	09384	0	1	0	0	0	0
MAG-41 Det B Fort Worth	67241	0	0	0	1	0	0
MAG-42 Marietta	67236	0	0	0	1	0	0
MAG-46 Miramar	67244	0	0	0	1	0	0
MASD Andrews	04801	0	0	0	1	0	0
TOTAL:		2	4	0	4	0	0

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES[1]

ACTIVITY	UIC	PHASING INCR.	BILLETS OFF	BILLETS ENL	DESIGN RATING	PNEC/SNEC PMOS/SMOS
OPERATIONAL	**NAVY**					
VFA-106	09679					
USMC			0	1		6541
ACTIVITY TOTAL:			0	1		
VFA-125	09485					
USMC			0	1		6541
ACTIVITY TOTAL:			0	1		
VAQ-129	09995					
USMC			0	1		6541
ACTIVITY TOTAL:			0	1		
VFA-203	09030					
TAR			0	1	AO	6802
SELRES			0	1	AO	6802
ACTIVITY TOTAL:			0	2		
VFA-204	09032					
TAR			0	1	AO	6802
SELRES			0	1	AO	6802
ACTIVITY TOTAL:			0	2		
VFC-12	52994					
TAR			0	1	AO	6802
SELRES			0	1	AO	6802
ACTIVITY TOTAL:			0	2		
VFA-201	09309					
SELRES			0	2	AO	6802
ACTIVITY TOTAL:			0	2		
OPERATIONAL	**USMC**					
VMFA-115	09234					
USMC			0	10		6541
ACTIVITY TOTAL:			0	10		
VMFA-122	09407					
USMC			0	10		6541
ACTIVITY TOTAL:			0	10		
VMFA-251	09241					
USMC			0	10		6541
ACTIVITY TOTAL:			0	10		

[1]All billet requirements shown are programmed in the F/A-18 NTSP, the applicable CV/CVN Class Total Ship NTSP, or applicable Shore Activity Manning Document, and are shown for planning of initial training requirements. Most initial training requirements for AIM-9X are phased in FY03-FY05 to coincide with Fleet introduction, but will be updated as carrier deployment schedules become available. These activities are highlighted in yellow to distinguish them from the billet community.

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES[1]

ACTIVITY	UIC	PHASING INCR.	BILLETS OFF	BILLETS ENL	DESIGN RATING	PNEC/SNEC PMOS/SMOS
VMFA-312	09253					
USMC				3		6541
AR			0	7		6541
ACTIVITY TOTAL:			0	10		
VMFA (AW)-224	01224					
USMC			0	11		6541
ACTIVITY TOTAL:			0	11		
VMFA (AW)-332	09501					
USMC			0	11		6541
ACTIVITY TOTAL:			0	11		
VMFA (AW)-533	09193					
USMC			0	11		6541
ACTIVITY TOTAL:			0	11		
VMFA-212	09434					
USMC			0	10		6541
ACTIVITY TOTAL:			0	10		
VMFA-232	09242					
USMC			0	10		6541
ACTIVITY TOTAL:			0	10		
VMFA-235	09237					
USMC			0	10		6541
ACTIVITY TOTAL:			0	10		
VMFA-314	09230					
USMC			0	10		6541
ACTIVITY TOTAL:			0	10		
VMFA-323	09235					
USMC			0	10		6541
ACTIVITY TOTAL:			0	10		
VMFA (AW)-121	09257					
USMC			0	11		6541
ACTIVITY TOTAL:			0	11		
VMFA (AW)-225	09232					
USMC			0	11		6541
ACTIVITY TOTAL:			0	11		
VMFA (AW)-242	09668					
USMC			0	11		6541
ACTIVITY TOTAL:			0	11		
VMFA-112	08954					
USMC			0	3		6541
AR			0	7		6541
ACTIVITY TOTAL:			0	10		
VMFA-134	09365					
USMC			0	7		6541
AR			0	3		6541
ACTIVITY TOTAL:			0	10		

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES[1]

ACTIVITY	UIC	PHASING INCR.	BILLETS OFF	BILLETS ENL	DESIGN RATING	PNEC/SNEC PMOS/SMOS
VMFA-142	67243					
USMC			0	3		6541
AR			0	7		6541
ACTIVITY TOTAL:			0	10		
MALS Aug Beaufort	67863					
USMC			0	11		6541
ACTIVITY TOTAL:			0	11		
MALS Aug Miramar	09116					
USMC			0	4		6541
ACTIVITY TOTAL:			0	4		
MAWTS-1	55167					
USMC			0	2		6541
ACTIVITY TOTAL:			0	2		
VMFAT-101	09965					
USMC			0	9		6541
SELRES			0	2	AO	6802
ACDU			0	2	AO	6802
ACTIVITY TOTAL:			0	13		
HMH-461	09582					
USMC			0	6		6541
ACTIVITY TOTAL:			0	6		
HMH-464	53935					
USMC			0	6		6541
ACTIVITY TOTAL:			0	6		
HMH-772	09490					
USMC			0	2		6541
ACTIVITY TOTAL:			0	2		
HMLA-167	09898					
USMC			0	18		6541
ACTIVITY TOTAL:			0	18		
HMLA-269	08998					
USMC			0	18		6541
ACTIVITY TOTAL:			0	18		
HMLA-773	09431					
USMC			0	4		6541
AR			0	8		6541
ACTIVITY TOTAL:			0	12		
HLMA-775	55252					
USMC			0	4		
AR			0	8		6541
ACTIVITY TOTAL:			0	12		
HLMA-775 DET A	09415					
USMC			0	2		
AR			0	4		6541
ACTIVITY TOTAL:			0	6		

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES[1]

ACTIVITY	UIC	PHASING INCR.	BILLETS OFF	BILLETS ENL	DESIGN RATING	PNEC/SNEC PMOS/SMOS
HMM-162	09492					
USMC			0	2		6541
ACTIVITY TOTAL:			0	2		
HMM-261	09441					
USMC			0	2		6541
ACTIVITY TOTAL:			0	2		
HMM-263	09445					
USMC			0	2		6541
ACTIVITY TOTAL:			0	2		
HMM-264	09374					
USMC			0	2		6541
ACTIVITY TOTAL:			0	2		
HMM-266	53972					
USMC			0	2		6541
ACTIVITY TOTAL:			0	2		
HMM-365	53923					
USMC			0	2		6541
ACTIVITY TOTAL:			0	2		
HMM-774	09430					
USMC			0	2		6541
ACTIVITY TOTAL:			0	2		
HMT-303	55176					
USMC			0	6		6541
ACTIVITY TOTAL:			0	6		
VMA-223	09438					
USMC			0	12		6541
ACTIVITY TOTAL:			0	12		
VMA-231	52948					
USMC			0	12		6541
ACTIVITY TOTAL:			0	12		
VMA-542	52847					
USMC			0	12		6541
ACTIVITY TOTAL:			0	12		
VMAQ-1	41345					
USMC			0	1		6541
ACTIVITY TOTAL:			0	1		
VMAQ-2	42362					
USMC			0	1		6541
ACTIVITY TOTAL:			0	1		
VMAQ-3	42362					
USMC			0	1		6541
ACTIVITY TOTAL:			0	1		
VMAQ-4	67837					
USMC			0	1		6541
ACTIVITY TOTAL:			0	1		

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES[1]

ACTIVITY	UIC	PHASING INCR.	BILLETS OFF	BILLETS ENL	DESIGN RATING	PNEC/SNEC PMOS/SMOS
VMAT-203	45483					
USMC			0	5		6541
ACTIVITY TOTAL:			0	5		
HMH-361	09446					
USMC			0	6		6541
ACTIVITY TOTAL:			0	6		
HMH-362	09495					
USMC			0	2		6541
ACTIVITY TOTAL:			0	2		
HMH-363	09496					
USMC			0	2		6541
ACTIVITY TOTAL:			0	2		
HMH-366	55650					
USMC			0	2		6541
ACTIVITY TOTAL:			0	2		
HMH-462	09349					
USMC			0	6		6541
ACTIVITY TOTAL:			0	6		
HMH-463	09010					
USMC			0	2		6541
ACTIVITY TOTAL:			0	2		
HMH-465	53936					
USMC			0	6		6541
ACTIVITY TOTAL:			0	6		
HMH-466	53998					
USMC			0	6		6541
ACTIVITY TOTAL:			0	6		
HMH-769	09487					
AR			0	1		6541
ACTIVITY TOTAL:			0	1		
HMLA-169	09202					
USMC			0	18		6541
ACTIVITY TOTAL:			0	18		
HMLA-267	09159					
USMC			0	18		6541
ACTIVITY TOTAL:			0	18		
HMLA-367	09079					
USMC			0	18		6541
ACTIVITY TOTAL:			0	18		
HMLA-369	09361					
USMC			0	18		6541
ACTIVITY TOTAL:			0	18		
HMM-161	09440					
USMC			0	2		6541
ACTIVITY TOTAL:			0	2		

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES[1]

ACTIVITY	UIC	PHASING INCR.	BILLETS OFF	BILLETS ENL	DESIGN RATING	PNEC/SNEC PMOS/SMOS
HMM-163	09405					
USMC			0	2		6541
ACTIVITY TOTAL:			0	2		
HMM-164	09408					
USMC			0	2		6541
ACTIVITY TOTAL:			0	2		
HMM-165	09343					
USMC			0	2		6541
ACTIVITY TOTAL:			0	2		
HMM-166	53973					
USMC			0	2		6541
ACTIVITY TOTAL:			0	2		
HMM-262	09442					
USMC			0	2		6541
ACTIVITY TOTAL:			0	2		
HMM-265	09404					
USMC			0	2		6541
ACTIVITY TOTAL:			0	2		
HMM-268	52790					
USMC			0	2		6541
ACTIVITY TOTAL:			0	2		
HMM-364	09793					
USMC			0	2		6541
ACTIVITY TOTAL:			0	2		
HMM-764	09402					
USMC			0	2		6541
ACTIVITY TOTAL:			0	2		
VMA-211	09412					
USMC			0	12		6541
ACTIVITY TOTAL:			0	12		
VMA-214	09436					
USMC			0	12		6541
ACTIVITY TOTAL:			0	12		
VMA-311	09416					
USMC			0	12		6541
ACTIVITY TOTAL:			0	12		
VMA-513	09231					
USMC			0	12		6541
ACTIVITY TOTAL:			0	12		
VMFA-124	52998					
USMC			0	10		6541
ACTIVITY TOTAL:			0	10		

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES[1]

ACTIVITY	UIC	PHASING INCR.	BILLETS OFF	BILLETS ENL	DESIGN RATING	PNEC/SNEC PMOS/SMOS
FLEET SUPPORT	**NAVY**					
COMNAVAIRLANT	57012					
ACDU			0	2	AO	6801
ACDU			0	1	AO	6802
ACTIVITY TOTAL:			0	3		
CV-63 USS Kitty Hawk	03363					
ACDU			0	11	AO	6801
ACDU			0	15	AO	6802
ACTIVITY TOTAL:			0	26		
CV-67 USS Kennedy	03367					
ACDU			0	11	AO	6801
TAR			0	1	AO	6801
ACDU			0	7	AO	6802
TAR			0	1	AO	6802
SELRES			0	2	AO	6802
ACTIVITY TOTAL:			0	22		
CVN-65 USS Enterprise	03365					
ACDU			0	11	AO	6801
ACDU			0	8	AO	6802
ACTIVITY TOTAL:			0	19		
CVN-68 USS Nimitz	03368					
ACDU			0	11	AO	6801
ACDU			0	7	AO	6802
ACTIVITY TOTAL:			0	18		
CVN-69 USS Eisenhower	03369					
ACDU			0	11	AO	6801
ACDU			0	8	AO	6802
ACTIVITY TOTAL:			0	19		
CVN-70 USS Vinson	20993					
ACDU			0	11	AO	6801
ACDU			0	8	AO	6802
ACTIVITY TOTAL:			0	19		
CVN-71 USS Roosevelt	21247					
ACDU			0	11	AO	6801
ACDU			0	8	AO	6802
ACTIVITY TOTAL:			0	19		
CVN-72 USS Lincoln	21297					
ACDU			0	11	AO	6801
ACDU			0	8	AO	6802
ACTIVITY TOTAL:			0	19		
CVN-73 USS Washington	21412					
ACDU			0	11	AO	6801
ACDU			0	7	AO	6802
ACTIVITY TOTAL:			0	18		

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES[1]

ACTIVITY	UIC	PHASING INCR.	BILLETS OFF	BILLETS ENL	DESIGN RATING	PNEC/SNEC PMOS/SMOS
CVN-74 USS Stennis	21847					
ACDU			0	11	AO	6801
ACDU			0	8	AO	6802
ACTIVITY TOTAL:			0	19		
CVN-75 USS Truman	21853					
ACDU			0	10	AO	6801
ACDU			0	7	AO	6802
ACTIVITY TOTAL:			0	17		
CVN-76 USS Reagan	22178					
ACDU		FY04	0	10	AO	6801
ACDU		FY04	0	7	AO	6802
ACTIVITY TOTAL:			0	17		
AFLOATRAGRU Norfolk CSTG	49085					
ACDU			0	2	AO	6801
ACTIVITY TOTAL:			0	2		
COMSTKFIGHTWINGLANT Det Beaufort	3006A					
ACDU			0	16	AO	6801
ACTIVITY TOTAL:			0	16		
FASOTRAGRULANT	09810					
ACDU			0	2	AO	6801/ 9502
ACTIVITY TOTAL:			0	2		
LHA-2 USS Saipan	20632					
ACDU			0	2	AO	6801
ACDU			0	1	AO	6802
ACTIVITY TOTAL:			0	3		
LHA-4 USS Nassau	20725					
ACDU			0	2	AO	6801
ACDU			0	1	AO	6802
ACTIVITY TOTAL:			0	3		
LHD-1 USS Wasp	21560					
ACDU			0	2	AO	6801
ACDU			0	2	AO	6802
ACTIVITY TOTAL:			0	4		
LHD-3 USS Kearsarge	21700					
ACDU			0	2	AO	6801
ACDU			0	2	AO	6802
ACTIVITY TOTAL:			0	4		
LHD-5 USS Bataan	21879					
ACDU			0	2	AO	6801
ACDU			0	2	AO	6802
ACTIVITY TOTAL:			0	4		

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES[1]

ACTIVITY	UIC	PHASING INCR.	BILLETS OFF	BILLETS ENL	DESIGN RATING	PNEC/SNEC PMOS/SMOS
MCS-12 USS Inchon	20009					
ACDU			0	1	AO	6801
TAR			0	1	AO	6802
ACTIVITY TOTAL:			0	2		
NAF Mildenhall	57032					
SELRES			0	1	AO	6801
ACTIVITY TOTAL:			0	1		
NAS Brunswick	60087					
ACDU			0	8	AO	6801
ACDU			0	1	AO	6810/ 6801
ACTIVITY TOTAL:			0	9		
NAS Cecil Field	60200					
ACDU			0	23	AO	6801
ACTIVITY TOTAL:			0	23		
NAS Keflavik	63032					
ACDU			0	3	AO	6801
ACDU			0	1	AO	6810/ 6801
ACDU			0	1	AO	0812/ 6801
ACTIVITY TOTAL:			0	5		
NAS Oceana	60191					
ACDU			0	3	AO	6801
ACTIVITY TOTAL:			0	3		
NATMSACT Kingsville	49149					
ACDU			0	1	AO	6801
ACTIVITY TOTAL:			0	1		
NAWMU-1	52821					
ACDU			0	23	AO	6801
ACDU			0	5	AO	6802
ACTIVITY TOTAL:			0	28		
NAVSTKAIRTESTRON	39783					
ACDU			0	12	AO	6801
ACDU			0	2	AO	6801/ 8845
ACDU			0	1	AO	6801/ 9590
ACTIVITY TOTAL:			0	15		
Ordnance DET Oceana	31279					
ACDU			0	33	AO	6801
ACTIVITY TOTAL:			0	33		
SURFLANTAVORD/MTT Norfolk	48764					
ACDU			0	5	AO	6801
ACTIVITY TOTAL:			0	5		
AIRMAINTTRSGRPDET Whidbey Island	66058					
ACDU			0	5	AO	6801/ 9502
ACTIVITY TOTAL:			0	5		

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES[1]

ACTIVITY	UIC	PHASING INCR.	BILLETS OFF	BILLETS ENL	DESIGN RATING	PNEC/SNEC PMOS/SMOS
COMFLTACT Okinawa	62254					
ACDU			0	2	AO	6801
ACTIVITY TOTAL:			0	2		
LHA-1 USS Tarawa	20550					
ACDU			0	2	AO	6801
ACDU			0	1	AO	6802
ACTIVITY TOTAL:			0	3		
LHA-3 USS Belleau Wood	20633					
ACDU			0	2	AO	6801
ACDU			0	1	AO	6802
ACTIVITY TOTAL:			0	3		
LHA-5 Peleliu	20748					
ACDU			0	2	AO	6801
ACDU			0	1	AO	6802
ACTIVITY TOTAL:			0	3		
LHD-2 USS Essex	21533					
ACDU			0	2	AO	6801
ACDU			0	2	AO	6802
ACTIVITY TOTAL:			0	4		
LHD-4 USS Boxer	21808					
ACDU			0	2	AO	6801
ACDU			0	2	AO	6802
ACTIVITY TOTAL:			0	4		
LHD-6 USS Bonhomme Richard	22202					
ACDU			0	2	AO	6801
ACDU			0	2	AO	6802
ACTIVITY TOTAL:			0	4		
LHD-7 USS Iwo Jima	23027					
ACDU			0	2	AO	6801
ACTIVITY TOTAL:			0	2		
NAF El Centro	60042					
ACDU			0	7	AO	6801
ACTIVITY TOTAL:			0	7		
NAS Lemoore	63042					
ACDU			0	3	AO	6801
ACTIVITY TOTAL:			0	3		
NAS Point Mugu	0429A					
ACDU			0	18	AO	6801
ACDU			0	1	AO	8345/6801
ACTIVITY TOTAL:			0	19		
NAWCWD Point Mugu	63126					
ACDU			0	1	AO	6801
ACDU			0	1	AO	6802
ACTIVITY TOTAL:			0	2		

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES[1]

ACTIVITY	UIC	PHASING INCR.	BILLETS OFF	BILLETS ENL	DESIGN RATING	PNEC/SNEC PMOS/SMOS
AIMD Atsugi	44323					
ACDU			0	4	AO	6802
ACTIVITY TOTAL:			0	4		
AIMD Cecil Field	60200					
ACDU			0	15	AO	6802
SELRES			0	2	AO	6802
ACTIVITY TOTAL:			0	17		
AIMD Fallon	44317					
ACDU			0	8	AO	6802
ACTIVITY TOTAL:			0	8		
AIMD Key West	44320					
ACDU			0	2	AO	6802
ACTIVITY TOTAL:			0	2		
AIMD Lemoore	44321					
ACDU			0	23	AO	6802
ACTIVITY TOTAL:			0	23		
AIMD North Island	44326					
ACDU			0	9	AO	6802
ACTIVITY TOTAL:			0	9		
AIMD Oceana	44327					
ACDU			0	73	AO	6802
ACTIVITY TOTAL:			0	73		
AIMD Roosevelt Roads	44373					
ACDU			0	5	AO	6802
ACTIVITY TOTAL:			0	5		
AIMD Sigonella	44330					
ACDU			0	2	AO	6802
ACTIVITY TOTAL:			0	2		
AIMD Whidbey Island	44329					
ACDU			0	20	AO	6802
ACTIVITY TOTAL:			0	20		
RAIMD Atlanta	44486					
TAR			0	6	AO	6802
ACTIVITY TOTAL:			0	6		
RAIMD Fort Worth	44487					
TAR			0	3	AO	6802
ACTIVITY TOTAL:			0	3		
RAIMD New Orleans	44490					
TAR			0	2	AO	6802
ACTIVITY TOTAL:			0	2		
RAIMD Willow Grove	44493					
TAR			0	3	AO	6802
ACTIVITY TOTAL:			0	3		

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES[1]

ACTIVITY	UIC	PHASING INCR.	BILLETS OFF	BILLETS ENL	DESIGN RATING	PNEC/SNEC PMOS/SMOS
SEAOPDET Cecil Field	46961					
ACDU			0	15	AO	6802
ACTIVITY TOTAL:			0	15		
SEAOPDET Lemoore	46964					
ACDU			0	11	AO	6802
ACTIVITY TOTAL:			0	11		
SEAOPDET North Island	46968					
ACDU			0	4	AO	6802
ACTIVITY TOTAL:			0	4		
SEAOPDET Oceana	46963					
ACDU			0	15	AO	6802
ACTIVITY TOTAL:			0	15		
NAS North Island	00246					
ACDU			0	3	AO	6802
ACTIVITY TOTAL:			0	3		
NAS Whidbey Island, VAN OPDET	31179					
ACDU			0	10	AO	6802
ACTIVITY TOTAL:			0	10		
NAVAIRESFOR Norfolk	63102					
TAR			0	1	AO	6802
ACTIVITY TOTAL:			0	1		
Naval Weapons Test Squadron, Point Mugu	39788					
ACDU			0	5	AO	6802
ACTIVITY TOTAL:			0	5		
Naval Weapons Test Squadron, China Lake	39787					
ACDU			0	1	AO	6802
ACTIVITY TOTAL:			0	1		
NAWCWD China Lake	60530					
ACDU			0	1	AO	6802
ACTIVITY TOTAL:			0	1		
Naval Test Wing Atlantic	39782					
ACDU			0	1	AO	6802
ACDU			0	8	AO	6802
ACTIVITY TOTAL:			0	9		
FLEET SUPPORT	**USMC**					
MAD China Lake	67852					
USMC			0	2		6541
ACTIVITY TOTAL:			0	2		
MALS-11 Miramar	09233					
USMC			0	44		6541
ACTIVITY TOTAL:			0	44		

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES[1]

ACTIVITY	UIC	PHASING INCR.	BILLETS OFF	BILLETS ENL	DESIGN RATING	PNEC/SNEC PMOS/SMOS
MALS-12 Iwakuni	09377					
USMC			0	44		6541
ACTIVITY TOTAL:			0	44		
MALS-13 Yuma	09041					
USMC			0	44		6541
ACTIVITY TOTAL:			0	44		
MALS-31 Beaufort	09384					
USMC			0	44		6541
ACTIVITY TOTAL:			0	44		
MALS-42 Marietta	09513					
USMC			0	2		6541
AR			0	10		6541
ACTIVITY TOTAL:			0	12		
MALS-41 Fort Worth	67239					
USMC			0	5		6541
AR			0	39		6541
ACTIVITY TOTAL:			0	44		
MALS-46 Miramar	67244					
USMC			0	2		6541
AR			0	42		6541
ACTIVITY TOTAL:			0	44		
MASD Andrews	04801					
USMC			0	1		6541
ACTIVITY TOTAL:			0	1		
2nd MAW Cherry Point	00201					
USMC			0	1		6541
ACTIVITY TOTAL:			0	1		
4th MAW New Orleans	00400					
USMC			0	1		6541
ACTIVITY TOTAL:			0	1		
Blount Island	38450					
USMC			0	2		6541
ACTIVITY TOTAL:			0	2		
H&HS Beaufort	02031					
USMC			0	5		6541
ACTIVITY TOTAL:			0	5		
H&HS Cherry Point	02002					
USMC			0	17		6541
ACTIVITY TOTAL:			0	17		
H&HS New River	02021					
USMC			0	5		6541
ACTIVITY TOTAL:			0	5		
MALS-14 Cherry Point	09378					
USMC			0	44		6541
ACTIVITY TOTAL:			0	44		

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES[1]

ACTIVITY	UIC	PHASING INCR.	BILLETS OFF	BILLETS ENL	DESIGN RATING	PNEC/SNEC PMOS/SMOS
MALS-26 New River	09167					
USMC			0	12		6541
ACTIVITY TOTAL:			0	12		
MALS-29 New River	52841					
USMC			0	12		6541
ACTIVITY TOTAL:			0	12		
MALS-49 Stewart New York	55555					
USMC			0	4		6541
AR			0	8		6541
ACTIVITY TOTAL:			0	12		
1st MAW Futenma	00101					
USMC			0	1		6541
ACTIVITY TOTAL:			0	1		
3rd MAW Miramar	00300					
USMC			0	1		6541
ACTIVITY TOTAL:			0	1		
H&HS Camp Pendleton	02208					
USMC			0	9		6541
ACTIVITY TOTAL:			0	9		
H&HS Miramar	02201					
USMC			0	8		6541
ACTIVITY TOTAL:			0	8		
H&HS Futenma	02601					
USMC			0	1		6541
ACTIVITY TOTAL:			0	1		
H&HS Iwakuni	02501					
USMC			0	7		6541
ACTIVITY TOTAL:			0	7		
H&HS Yuma	02230					
USMC			0	18		6541
ACTIVITY TOTAL:			0	18		
MALS-16 Tustin	09243					
USMC			0	12		6541
ACTIVITY TOTAL:			0	12		
MALS-36 Futenma	09260					
USMC			0	12		6541
ACTIVITY TOTAL:			0	12		
MALS-39 Camp Pendleton	09808					
USMC			0	12		6541
ACTIVITY TOTAL:			0	12		
MALSE Kaneohe	02300					
USMC			0	4		6541
ACTIVITY TOTAL:			0	4		

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES[1]

ACTIVITY	UIC	PHASING INCR.	BILLETS OFF	BILLETS ENL	DESIGN RATING	PNEC/SNEC PMOS/SMOS
MCAF Kaneohe	02303					
USMC			0	7		6541
ACTIVITY TOTAL:			0	7		

II.A.1.c. TOTAL BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES[2]

DESIGN RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF	PFYs ENL	CFY04 OFF	CFY04 ENL	FY05 OFF	FY05 ENL	FY06 OFF	FY06 ENL	FY07 OFF	FY07 ENL	FY08 OFF	FY08 ENL
OPERATIONAL ACTIVITY – ACDU													
AO	6802	0	2	0	0	0	0	0	0	0	0	0	0
OPERATIONAL ACTIVITY – TAR													
AO	6802	0	3	0	0	0	0	0	0	0	0	0	0
OPERATIONAL ACTIVITY – SELRES													
AO	6802	0	7	0	0	0	0	0	0	0	0	0	0
OPERATIONAL ACTIVITY – USMC													
	6541	0	492	0	0	0	0	0	0	0	0	0	0
OPERATIONAL ACTIVITY – AR													
	6541	0	45	0	0	0	0	0	0	0	0	0	0
FLEET SUPPORT ACTIVITY – ACDU													
	0812/6801	0	1	0	0	0	0	0	0	0	0	0	0
	6801	0	307	0	10	0	0	0	0	0	0	0	0
	6801/8845	0	2	0	0	0	0	0	0	0	0	0	0
	6801/9502	0	7	0	0	0	0	0	0	0	0	0	0
	6801/9590	0	1	0	0	0	0	0	0	0	0	0	0
	6802	0	350	0	7	0	0	0	0	0	0	0	0
	6810/6801	0	2	0	0	0	0	0	0	0	0	0	0
	8345/6801	0	1	0	0	0	0	0	0	0	0	0	0
FLEET SUPPORT ACTIVITY – TAR													
AO	6801	0	1	0	0	0	0	0	0	0	0	0	0
AO	6802	0	17	0	0	0	0	0	0	0	0	0	0
FLEET SUPPORT ACTIVITY - SELRES													
AO	6802	0	4	0	0	0	0	0	0	0	0	0	0
FLEET SUPPORT ACTIVITY – USMC													
	6541	0	383	0	0	0	0	0	0	0	0	0	0
FLEET SUPPORT ACTIVITY – AR													
	6541	0	99	0	0	0	0	0	0	0	0	0	0
SUMMARY TOTAL:													
OPERATIONAL ACTIVITY – ACDU													
		0	2	0	0	0	0	0	0	0	0	0	0
OPERATIONAL ACTIVITY – TAR													
		0	3	0	0	0	0	0	0	0	0	0	0
OPERATIONAL ACTIVITY – SELRES													
		0	7	0	0	0	0	0	0	0	0	0	0
OPERATIONAL ACTIVITY – USMC													
		0	492	0	0	0	0	0	0	0	0	0	0
OPERATIONAL ACTIVITY – AR													
		0	45	0	0	0	0	0	0	0	0	0	0

[2] All billet requirements shown are programmed in the F/A-18 NTSP, the applicable CV/CVN Class Total Ship NTSP, or applicable Shore Activity Manning Document, and are shown for planning of initial training requirements. Most initial training requirements for AIM-9X are phased in FY03-FY04 to coincide with Fleet introduction, but will be updated as carrier deployment schedules become available.

II.A.1.c. TOTAL BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES[2]

DESIGN RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF	PFYs ENL	CFY04 OFF	CFY04 ENL	FY05 OFF	FY05 ENL	FY06 OFF	FY06 ENL	FY07 OFF	FY07 ENL	FY08 OFF	FY08 ENL
FLEET SUPPORT ACTIVITY – ACDU													
		0	671	0	17	0	0	0	0	0	0	0	0
FLEET SUPPORT ACTIVITY – TAR													
		0	18	0	0	0	0	0	0	0	0	0	0
FLEET SUPPORT ACTIVITY – SELRES													
		0	4	0	0	0	0	0	0	0	0	0	0
FLEET SUPPORT ACTIVITY – USMC													
		0	383	0	0	0	0	0	0	0	0	0	0
FLEET SUPPORT ACTIVITY – AR													
		0	99	0	0	0	0	0	0	0	0	0	0
GRAND TOTAL:													
	ACDU	0	671	0	17	0	0	0	0	0	0	0	0
	TAR	0	21	0	0	0	0	0	0	0	0	0	0
	SELRES	0	11	0	0	0	0	0	0	0	0	0	0
	USMC	0	875	0	0	0	0	0	0	0	0	0	0
	AR	0	144	0	0	0	0	0	0	0	0	0	0

II.A.3. TRAINING ACTIVITIES INSTRUCTOR AND SUPPORT BILLET REQUIREMENTS [3]

INSTRUCTOR BILLETS

TRAINING ACTIVITY, LOCATION, UIC: MTU-4030 NAMTRAGRUDET NS Mayport 66069

DESIGN RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF	PFYs ENL	CFY04 OFF	CFY04 ENL	FY05 OFF	FY05 ENL	FY06 OFF	FY06 ENL	FY07 OFF	FY07 ENL	FY08 OFF	FY08 ENL
ACDU													
AO	6801/9502	0	4	0	4	0	4	0	4	0	4	0	4
SELRES													
AO	6801/9502	0	1	0	1	0	1	0	1	0	1	0	1
TOTAL:		0	5	0	5	0	5	0	5	0	5	0	5

TRAINING ACTIVITY, LOCATION, UIC: MTU-4032 NAMTRAU NAS Norfolk 66046

DESIGN RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF	PFYs ENL	CFY04 OFF	CFY04 ENL	FY05 OFF	FY05 ENL	FY06 OFF	FY06 ENL	FY07 OFF	FY07 ENL	FY08 OFF	FY08 ENL
ACDU													
AO	6801/9502	0	7	0	7	0	7	0	7	0	7	0	7
SELRES													
AO	6801/9502	0	2	0	2	0	2	0	2	0	2	0	2
TOTAL:		0	9	0	9	0	9	0	9	0	9	0	9

TRAINING ACTIVITY, LOCATION, UIC: MTU-4033 NAMTRAU NAS North Island 66065

DESIGN RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF	PFYs ENL	CFY04 OFF	CFY04 ENL	FY05 OFF	FY05 ENL	FY06 OFF	FY06 ENL	FY07 OFF	FY07 ENL	FY08 OFF	FY08 ENL
ACDU													
AO	6801/9502	0	4	0	4	0	4	0	4	0	4	0	4

TRAINING ACTIVITY, LOCATION, UIC: MTU-4034 NAMTRAMARU MCAS Cherry Point 66047

DESIGN RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF	PFYs ENL	CFY04 OFF	CFY04 ENL	FY05 OFF	FY05 ENL	FY06 OFF	FY06 ENL	FY07 OFF	FY07 ENL	FY08 OFF	FY08 ENL
USMC													
MOS	6541	0	21	0	21	0	21	0	21	0	21	0	21

TRAINING ACTIVITY, LOCATION, UIC: MTU-4035 NAMTRAU NAS Whidbey Island 66058

DESIGN RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF	PFYs ENL	CFY04 OFF	CFY04 ENL	FY05 OFF	FY05 ENL	FY06 OFF	FY06 ENL	FY07 OFF	FY07 ENL	FY08 OFF	FY08 ENL
ACDU													
AO	6801/9502	0	4	0	4	0	4	0	4	0	4	0	4

[3] Instructor billet requirements shown are for the total course throughput for applicable NEC/MOS, not just throughput required to support AIM-9X.

II.A.4. CHARGEABLE STUDENT BILLET REQUIREMENTS [4]

ACTIVITY, LOCATION, UIC	USN/ USMC	PFYs OFF	PFYs ENL	CFY04 OFF	CFY04 ENL	FY05 OFF	FY05 ENL	FY06 OFF	FY06 ENL	FY07 OFF	FY07 ENL	FY08 OFF	FY08 ENL
MTU 4030 NAMTRAGRUDET, NS Mayport, 66069													
	USN	0	10	0	10	0	10	0	10	0	10	0	10
MTU 4032 NAMTRAU, NAS Norfolk, 66046													
	USN	0	16	0	16	0	16	0	16	0	16	0	16
MTU 4033 NAMTRAU, NAS North Island, 66065													
	USN	0	22	0	22	0	22	0	22	0	22	0	22
MTU 4034, NAMTRAMARU MCAS Cherry Point, 66047													
	USMC	0	48	0	48	0	48	0	48	0	48	0	48
MTU 4035 NAMTRAU, NAS Whidbey Island, 66058													
	USN	0	11	0	11	0	11	0	11	0	11	0	11
SUMMARY TOTAL:													
	USN	0	59	0	59	0	59	0	59	0	59	0	59
	USMC	0	48	0	48	0	48	0	48	0	48	0	48
GRAND TOTAL:		0	107	0	107	0	107	0	107	0	107	0	107

[4] Chargeable student billet requirements shown are for the total course throughput for applicable NEC/MOS, not just throughput required to support AIM-9X.

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS[5]

a. OFFICER - USN: NA

b. ENLISTED - USN:

RATING	PNEC/SNEC	BILLET BASE	CFY04 +/-	CFY04 CUM	FY05 +/-	FY05 CUM	FY06 +/-	FY06 CUM	FY07 +/-	FY07 CUM	FY08 +/-	FY08 CUM
Operational Billets ACDU and TAR												
AO	6802	5	0	5	0	5	0	5	0	5	0	5
Fleet Support Billets ACDU and TAR												
AO	0812/6801	1	0	1	0	1	0	1	0	1	0	1
AO	6801	308	+10	318	0	318	0	318	0	318	0	318
AO	6801/8845	2	0	2	0	2	0	2	0	2	0	2
AO	6801/9502	7	0	7	0	7	0	7	0	7	0	7
AO	6801/9590	1	0	1	0	1	0	1	0	1	0	1
AO	6802	363	+7	370	0	370	0	370	0	370	0	370
AO	6810/6801	2	0	2	0	2	0	2	0	2	0	2
AO	8345/6801	1	0	1	0	1	0	1	0	1	0	1
Instructor and Support (Staff) Billets ACDU and TAR												
AO	6801/9502	19	0	19	0	19	0	19	0	19	0	19
Chargeable Student Billets ACDU and TAR												
		59	1	59	0	59	0	59	0	59	0	59
TOTAL USN ENLISTED BILLETS:												
Operational		5	0	5	0	5	0	5	0	5	0	5
Fleet Support		689	+17	706	0	706	0	706	0	706	0	706
Staff		19	0	19	0	19	0	19	0	19	0	19
Student		59	0	59	0	59	0	59	0	59	0	59
SELRES		14	0	14	0	14	0	14	0	14	0	14

[5] Billets are programmed through applicable CV/CVN Class Total Ship NTSPs and Shore Activity Manning Documents.

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS[5]

c. OFFICER - USMC: NA

b. ENLISTED - USMC:

RATING	PMOS/SMOS	BILLET BASE	CFY04 +/-	CFY04 CUM	FY05 +/-	FY05 CUM	FY06 +/-	FY06 CUM	FY07 +/-	FY07 CUM	FY08 +/-	FY08 CUM
Operational Billets USMC and AR												
	6541	537	0	537	0	537	0	537	0	537	0	537
Fleet Support Billets USMC and AR												
	6541	482	0	482	0	482	0	482	0	482	0	482
Instructor and Support (Staff) Billets USMC and AR												
	6541	21	0	21	0	21	0	21	0	21	0	21
Chargeable Student Billets USMC and AR												
		48	0	48	0	48	0	48	0	48	0	48
TOTAL USMC ENLISTED BILLETS:												
Operational		537	0	537	0	537	0	537	0	537	0	537
Fleet Support		482	0	482	0	482	0	482	0	482	0	482
Staff		21	0	21	0	21	0	21	0	21	0	21
Student		48	0	48	0	48	0	48	0	48	0	48
SMCR		0	0	0	0	0	0	0	0	0	0	0

II.B. PERSONNEL REQUIREMENTS

II.B.1. ANNUAL TRAINING INPUT REQUIREMENTS[6]

CIN, COURSE TITLE: D-646-7001, Strike Armament Equipment Intermediate Maintenance
COURSE LENGTH: 9.0 Weeks **SEA TOUR LENGTH:** Navy: 60 Months
ATTRITION FACTOR: Navy: 10 % **BACKOUT FACTOR:** 0.12

TRAINING ACTIVITY	SOURCE	ACDU-TAR SELRES	CFY04		FY05		FY06		FY07		FY08	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
MTU-4032 NAMTRAU, NAS Norfolk												
	USN	ACDU-TAR	0	40	0	40	0	40	0	40	0	40
	USN	SELRES	0	0	0	0	0	0	0	0	0	0
		TOTAL	0	40	0	40	0	40	0	40	0	40

CIN, COURSE TITLE: D-646-7007, General Shipboard/NAS Weapons Department AVORD Maintenance
COURSE LENGTH: 6.0 Weeks **SEA TOUR LENGTH:** Navy: 60 Months
ATTRITION FACTOR: Navy: 10 % **BACKOUT FACTOR:** 0.12

TRAINING ACTIVITY	SOURCE	ACDU-TAR SELRES	CFY04		FY05		FY06		FY07		FY08	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
MTU-4030 NAMTRAGRUDET, NS Mayport												
	USN	ACDU-TAR	0	72	0	72	0	72	0	72	0	72
MTU-4032 NAMTRAU, NAS Norfolk												
	USN	ACDU-TAR	0	60	0	60	0	60	0	60	0	60
	USN	SELRES	0	0	0	1	0	0	0	0	0	0
		TOTAL	0	60	0	61	0	60	0	60	0	60

CIN, COURSE TITLE: E-646-7001, Strike Armament Equipment Intermediate Maintenance
COURSE LENGTH: 9.0 Weeks **SEA TOUR LENGTH:** Navy: 60 Months
ATTRITION FACTOR: Navy: 10 % **BACKOUT FACTOR:** 0.12

TRAINING ACTIVITY	SOURCE	ACDU-TAR SELRES	CFY04		FY05		FY06		FY07		FY08	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
MTU-4033 NAMTRAU, NAS North Island												
	USN	ACDU-TAR	0	64	0	64	0	64	0	64	0	64
	USN	SELRES	0	0	0	0	0	0	0	0	0	0
		TOTAL	0	64	0	64	0	64	0	64	0	64

[6] ATIR shown are for the total course throughput for applicable NEC/MOS, not just throughput required to support AIM-9X.

II.B.1. ANNUAL TRAINING INPUT REQUIREMENTS (Continued)[6]

CIN, COURSE TITLE: E-646-7007, General Shipboard/NAS Weapons Department AVORD Maintenance
COURSE LENGTH: 6.0 Weeks **SEA TOUR LENGTH:** Navy: 60 Months
ATTRITION FACTOR: Navy: 10 % **BACKOUT FACTOR:** 0.12

TRAINING ACTIVITY	SOURCE	ACDU-TAR SELRES	CFY04		FY05		FY06		FY07		FY08	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
MTU-4033 NAMTRAU, NAS North Island												
	USN	ACDU-TAR	0	72	0	72	0	72	0	72	0	72
	USN	SELRES	0	1	0	1	0	1	0	1	0	1
		TOTAL	0	73	0	73	0	73	0	73	0	73
MTU-4035 NAMTRAU, NAS Whidbey Island[7]												
	USN	ACDU-TAR	0	72	0	72	0	72	0	72	0	72

CIN, COURSE TITLE: C-646-4109, Weapons Department General Aviation Ordnance
COURSE LENGTH: 2.0 Weeks **SEA TOUR LENGTH:** Navy: 60 Months
ATTRITION FACTOR: Navy: 10 % **BACKOUT FACTOR:** 0.12

TRAINING ACTIVITY	SOURCE	ACDU-TAR SELRES	CFY04		FY05		FY06		FY07		FY08	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
MTU-4030 NAMTRAGRUDET, NS Mayport												
	USN	ACDU-TAR	0	60	0	60	0	60	0	60	0	60
MTU-4032 NAMTRAU, NAS Norfolk												
	USN	ACDU-TAR	0	50	0	50	0	50	0	50	0	50
MTU-4033 NAMTRAU, NAS North Island												
	USN	ACDU-TAR	0	72	0	72	0	72	0	72	0	72
MTU-4035 NAMTRAU, NAS Whidbey Island												
	USN	ACDU-TAR	0	72	0	72	0	72	0	72	0	72

CIN, COURSE TITLE: M-646-7026, Aircraft Ordnance Intermediate Maintenance
COURSE LENGTH: 11 Weeks **SEA TOUR LENGTH:** NA
ATTRITION FACTOR: Marine: 0 % **BACKOUT FACTOR:** 0.21

TRAINING ACTIVITY	SOURCE	USMC-AR SMCR	CFY04		FY05		FY06		FY07		FY08	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
MTU-4034, NAMTRAMARU MCAS Cherry Point												
	USMC	USMC-AR	0	240	0	240	0	240	0	240	0	240

ACTIVITY TOTAL:

MTU-4030 NAMTRAGRU DET	0	132	0	132	0	132	0	132	0	132
MTU-4032 NAMTRAU	0	150	0	151	0	150	0	150	0	150
MTU-4033 NAMTRAU	0	209	0	209	0	209	0	209	0	209
MTU-4034 NAMTRAMARU	0	240	0	240	0	240	0	240	0	240
MTU-4035 NAMTRAU	0	144	0	144	0	144	0	144	0	144

PART III - TRAINING REQUIREMENTS

The following elements are not affected by the AIM-9X and, therefore, are not included in this NTSP.

III.A. Training Course Requirements
- III.A.2 Follow-on Training
  - III.A.2.b. Planned Courses
  - III.A.2.c. Unique Courses
- III.A.3. Existing Training Phased Out

III.B. Total Ship Training Course Summary

III.C. Inactive Duty Training Travel and Annual Training Summary

III.A. TRAINING COURSE REQUIREMENTS

III.A.1. INITIAL TRAINING REQUIREMENTS

COURSE TITLE: AIM-9X Theory of Operation & AIM-9X/F/A-18C/D Aircrew Procedures
COURSE DEVELOPER: RMS/WBB
INSTRUCTOR: Joel Strabala/Richard Garcia
COURSE LENGTH: Lecture 1 day/Practice (simulator) 2 days (when available)

LOCATION, UIC	DATE BEGIN	STUDENTS OFF	ENL	CIV		ACTIVITY DESTINATION
Boeing St. Louis, MO, NA	15 SEP 98	11	0	4	Input	(DT-IIB/C) NAWCWD,
		0.09	0	0.01	AOB	AWL, and NAWCAD
		0.09	0	0.01	Chargeable	
Boeing St. Louis, MO, NA	14 JUL 99	5	0	0	Input	(OT-IIA) VX-9
		0.04	0	0	AOB	
		0.04	0	0	Chargeable	
VX-9, 55646, NAWS China Lake	4 FEB 02	6	0	0	Input	(OT-IIB) VX-9
		0.05	0	0	AOB	
		0.05	0	0	Chargeable	
NSAWC (Topgun), 69190,	JUN 02	3	0	0	Input	(NSAWC, (Topgun)
NAS Lemoore		0.03	0	0	AOB	
		0.03	0	0	Chargeable	
VMFA-212, 09434, MCAS Iwakuni	7 APR 03	6	0	0	Input	CVW-5 (VMFA-212)
		0.05	0	0	AOB	
		0.05	0	0	Chargeable	
SFWSP, 35185, NAS Lemoore	15 JUL 03	20	0	0	Input	SFWSP, CVW-14
(VFA-25 09637, VFA-113 09092,		0.17	0	0	AOB	(VFA-25, VFA-113)
MAWTS-1 55167)		0.17	0	0	Chargeable	MAWTS-1
VFA-192, 55179, VFA-195, 09706,	FEB 04	20	0	0	Input	CVW-5
NAS Atsugi		0.17	0	0	AOB	(VFA-192, VFA-195)
		0.17	0	0	Chargeable	
SFWSL, 47084, NAS Oceana	MAR 04	20	0	0	Input	SFWSL, CVW-17
(VFA-34 09070, VFA-83 09223)		0.17	0	0	AOB	(VFA-34, VFA-83)
		0.17	0	0	Chargeable	
MAG-31, 09131, MCAS Beaufort	MAY 04	20	0	0	Input	MAG-31
		0.17	0	0	AOB	
		0.17	0	0	Chargeable	

III.A.1. INITIAL TRAINING REQUIREMENTS

COURSE TITLE: AIM-9X Loading on the F/A-18C/D Aircraft
COURSE DEVELOPER: RMS
INSTRUCTOR: Walter Murphy/Kris Lockwood
COURSE LENGTH: 1 day

LOCATION, UIC	DATE BEGIN	STUDENTS OFF	ENL	CIV		ACTIVITY DESTINATION
NAVWPNTESTRON CL, 39787	30 JUN 98	0	7	0	Input	(DT-IIB/C) NAWCWD CL
		0	0.02	0	AOB	and NAWCWD PM
		0	0.02	0	Chargeable	
VX-9, 55646	8 SEP 99	0	12	0	Input	(OT-IIA) VX-9, 55646
		0	0.03	0	AOB	
		0	0.03	0	Chargeable	
VX-9, 55646	4 FEB 02	0	12	0	Input	(OT-IIB) VX-9, 55646
		0	0.03	0	AOB	
		0	0.03	0	Chargeable	
VMFA-212, 09434, MCAS Iwakuni	7 APR 03	0	12	3	Input	CVW-5 (VMFA-212)
		0	0.03	0.01	AOB	
		0	0.03	0.01	Chargeable	
SFWSP, 35185, NAS Lemoore	15 JUL 03	0	20	4	Input	SFWSP, CVW-14
(VFA-25 09637, VFA-113 09092,		0	0.06	0.02	AOB	(VFA-25, VFA-113)
(Also attending NATTC AO "A1"		0	0.06	0.02	Chargeable	NATTC AO "A1" School
School, 63082)						
VFA-192, 55179, VFA-195, 09706,	FEB 04	0	20	0	Input	CVW-5
NAS Atsugi		0	0.06	0	AOB	(VFA-192, VFA-195)
		0	0.06	0	Chargeable	
SFWSL, 47084, NAS Oceana	MAR 04	0	20	0	Input	SFWSL, CVW-17
(VFA-34 09070, VFA-83 09223)		0	0.06	0	AOB	(VFA-34, VFA-83)
		0	0.06	0	Chargeable	
MAG-31, 09131, MCAS Beaufort	MAY 04	0	20	0	Input	MAG-31
		0	0.06	0	AOB	
		0	0.06	0	Chargeable	

COURSE TITLE: AIM-9X and F/A-18C/D Digital Wing Tip Impacts
COURSE DEVELOPER: SMT
INSTRUCTOR: Tim Carroll
COURSE LENGTH: 1 day

LOCATION, UIC	DATE BEGIN	STUDENTS OFF	ENL	CIV		ACTIVITY DESTINATION
VX-9, 55646	4 FEB 02	0	12	0	Input	(OT-IIB) VX-9, 55646
		0	0.03	0	AOB	
		0	0.03	0	Chargeable	
VMFA-212, 09434, MCAS Iwakuni	7 APR 03	0	12	3	Input	CVW-5 (VMFA-212)
		0	0.03	0.01	AOB	
		0	0.03	0.01	Chargeable	
SFWSP, 35185, NAS Lemoore (VFA-25 09637, VFA-113 09092, (Also attending NATTC AO "A1" School, 63082)	15 JUL 03	0	20	4	Input	SFWSP, CVW-14 (VFA-25, VFA-113) NATTC AO "A1" School
		0	0.06	0.02	AOB	
		0	0.06	0.02	Chargeable	
VFA-192, 55179, VFA-195, 09706, NAS Atsugi	FEB 04	0	20	0	Input	CVW-5 (VFA-192, VFA-195)
		0	0.06	0	AOB	
		0	0.06	0	Chargeable	
SFWSL, 47084, NAS Oceana (VFA-34 09070, VFA-83 09223)	MAR 04	0	20	0	Input	SFWSL, CVW-17 (VFA-34, VFA-83)
		0	0.06	0	AOB	
		0	0.06	0	Chargeable	
MAG-31, 09131, MCAS Beaufort	MAY 04	0	20	0	Input	MAG-31
		0	0.06	0	AOB	
		0	0.06	0	Chargeable	

COURSE TITLE: AIM-9X Handling and Storage, Packaging and Storing, Inspections, & Remove/Replace Items
COURSE DEVELOPER: RMS
INSTRUCTOR: Walter Murphy/Kris Lockwood
COURSE LENGTH: 1 day

LOCATION, UIC	DATE BEGIN	STUDENTS OFF	ENL	CIV		ACTIVITY DESTINATION
NAWS China Lake, 68937	9 SEP 99	0	0	4	Input	(OT-IIA) NAWS China Lake
		0	0	0.01	AOB	
		0	0	0.01	Chargeable	
VX-9, 55646, NAWS China Lake (also attending MTU-4033 66065)	13 JUL 00	0	2	0	Input	(CCRP) VX-9, MTU-4033
		0	0.01	0	AOB	
		0	0.01	0	Chargeable	
CVN-74 USS Stennis, 21847 (for Ship Suitability Test) Instructors: AO1 Sutphin/AO2 Elias	13 MAR 01	0	16	0	Input	CVN-74 USS Stennis,
		0	0.04	0	AOB	
		0	0.04	0	Chargeable	
CVN-68 USS Nimitz, 03368 (for OPEVAL) (Also attending MTU-4034 66047)	28 MAY 02	0	8	0	Input	(OT-IIB) VX-9, 55646 MTU-4034
		0	0.02	0	AOB	
		0	0.02	0	Chargeable	
MALS-12, 09377, MCAS Iwakuni	7 APR 03	0	8	3	Input	MALS-12
		0	0.02	0.01	AOB	
		0	0.02	0.01	Chargeable	
NAS Lemoore Weapons 63042, (Also attending Weapons Det Fallon 60495, Weapons Det Oceana 60191, MTU-4030 66069, MTU-4032 66046, MTU-4034 66047, MTU-4035 66058)	15 JUL 03	0	12	4	Input	NAS Lemoore Weapons, Weapons Det Fallon, Weapons Det Oceana, MTU-4030, MTU-4032, MTU-4034, MTU-4035
		0	0.04	0.02	AOB	
		0	0.04	0.02	Chargeable	
CV-63 USS Kitty Hawk 03363, (Also attending NAS Atsugi Weapons)	FEB 04	0	20	0	Input	CV-63 USS Kitty Hawk
		0	0.06	0	AOB	
		0	0.06	0	Chargeable	
NAS Oceana Weapons 60191 (Also attending FASOTRAGRULANT/ MOTT 09810)	MAR 04	0	8	0	Input	NAS Oceana Weapons FASOTRAGRULANT
		0	0.02	0	AOB	
		0	0.02	0	Chargeable	
MALS-31, 09384, MCAS Beaufort	MAY 04	0	8	0	Input	MALS-31
		0	0.02	0	AOB	
		0	0.02	0	Chargeable	

COURSE TITLE: AIM-9X Off-Aircraft BIT & Reprogramming Procedures
COURSE DEVELOPER: RMS
INSTRUCTOR: Walter Murphy/Kris Lockwood
COURSE LENGTH: 1 day

LOCATION, UIC	DATE BEGIN	STUDENTS OFF	ENL	CIV		ACTIVITY DESTINATION
VX-9, 55646	12 JUL 00	0	2	0	Input	(CCRP) VX-9, 55646
		0	0.01	0	AOB	
		0	0.01	0	Chargeable	
CVN-74 USS Stennis, 21847	14 MAR 01	0	16	0	Input	CVN-74 USS Stennis,
(for Ship Suitability Test)		0	0.04	0	AOB	21847
Instructors: AO1 Sutphin/AO2 Elias		0	0.04	0	Chargeable	
CVN-68 USS Nimitz, 03368	28 MAY 02	0	8	0	Input	(OT-IIB) VX-9, 55646
(for OPEVAL)		0	0.02	0	AOB	MTU-4034
(Also attending MTU-4034 66047)		0	0.02	0	Chargeable	
MALS-12, 09377, MCAS Iwakuni	7 APR 03	0	8	3	Input	MALS-12
		0	0.02	0.01	AOB	
		0	0.02	0.01	Chargeable	
NAS Lemoore Weapons 63042,	15 JUL 03	0	12	4	Input	NAS Lemoore Weapons,
(Also attending Weapons Det		0	0.04	0.02	AOB	Weapons Det Fallon,
Fallon 60495, Weapons Det Oceana		0	0.04	0.02	Chargeable	Weapons Det Oceana,
60191, MTU-4030 66069, MTU-4032						MTU-4030, MTU-4032,
66046, MTU-4034 66047, MTU-4035						MTU-4034, MTU-4035
66058)						
CV-63 USS Kitty Hawk 03363,	FEB 04	0	20	0	Input	CV-63 USS Kitty Hawk
(Also attending NAS Atsugi Weapons)		0	0.06	0	AOB	
		0	0.06	0	Chargeable	
NAS Oceana Weapons 60191	MAR 04	0	8	0	Input	NAS Oceana Weapons
(Also attending FASOTRAGRULANT/		0	0.02	0	AOB	FASOTRAGRULANT
MOTT 09810)		0	0.02	0	Chargeable	
MALS-31, 09384, MCAS Beaufort	MAY 04	0	8	0	Input	MALS-31
		0	0.02	0	AOB	
		0	0.02	0	Chargeable	

COURSE TITLE: AIM-9X Aircrew Familiarization
COURSE DEVELOPER: NSAWC N7
INSTRUCTOR: NSAWC N7
COURSE LENGTH: 1 day

LOCATION, UIC	DATE BEGIN	STUDENTS OFF	ENL	CIV		ACTIVITY DESTINATION
SFWSP, 35185	FY03	20	0	0	Input	SFWSP, 35185
		0.05	0	0	AOB	
		0.05	0	0	Chargeable	
SFWSL, 47084	FY03	20	0	0	Input	SFWSL, 47084
		0.05	0	0	AOB	
		0.05	0	0	Chargeable	
MAWTS-1, 55167	FY03	20	0	0	Input	MAWTS-1, 55167
		0.05	0	0	AOB	
		0.05	0	0	Chargeable	
VFA-125, 09485	FY03	20	0	0	Input	VFA-125, 09485
		0.05	0	0	AOB	
		0.05	0	0	Chargeable	
VFA-106, 09679	FY03	20	0	0	Input	VFA-106, 09679
		0.05	0	0	AOB	
		0.05	0	0	Chargeable	
VMFAT-101, 09965	FY03	20	0	0	Input	VMFAT-101, 09965
		0.05	0	0	AOB	
		0.05	0	0	Chargeable	

COURSE TITLE: AIM-9X Intermediate Maintenance
COURSE DEVELOPER: NAMTRAU MTU-4032/4033/4035
INSTRUCTOR: TBD
COURSE LENGTH: 2 days

LOCATION, UIC	DATE BEGIN	STUDENTS OFF	ENL	CIV		ACTIVITY DESTINATION
NAWMU-1, 52821	FY03	0	20	0	Input	NAWMU-1, 52821
		0	0.05	0	AOB	
		0	0.05	0	Chargeable	
CV/CVN TBD (West Coast)	FY04	0	20	0	Input	CV/CVN TBD (West Coast)
		0	0.05	0	AOB	
		0	0.05	0	Chargeable	
CVN-75 USS Truman (East Coast)	FY04	0	20	0	Input	CV/CVN TBD (East Coast)
		0	0.05	0	AOB	
		0	0.05	0	Chargeable	

NOTE: Updated information on initial training will be incorporated into this NTSP, as it becomes available.

III.A.2. FOLLOW-ON TRAINING

III.A.2.a. EXISTING COURSES

TRAINING ACTIVITY: MTU-4030 NAMTRAGRUDET
LOCATION, UIC: NS Mayport, 66069

CIN, COURSE TITLE: D-646-7007, General Shipboard/NAS Weapons Department AVORD Maintenance

SOURCE: NAVY **STUDENT CATEGORY:** ACDU-TAR

CY04		FY05		FY06		FY07		FY08		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
0	72.0	0	72.0	0	72.0	0	72.0	0	72.0	ATIR
0	64.8	0	64.8	0	64.8	0	64.8	0	64.8	Output
0	7.9	0	7.9	0	7.9	0	7.9	0	7.9	AOB
0	7.9	0	7.9	0	7.9	0	7.9	0	7.9	Chargeable

CIN, COURSE TITLE: C-646-4109, Weapons Department General Aviation Ordnance

SOURCE: NAVY **STUDENT CATEGORY:** ACDU-TAR

CY04		FY05		FY06		FY07		FY08		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
0	60.0	0	60.0	0	60.0	0	60.0	0	60.0	ATIR
0	54.0	0	54.0	0	54.0	0	54.0	0	54.0	Output
0	2.2	0	2.2	0	2.2	0	2.2	0	2.2	AOB
0	2.2	0	2.2	0	2.2	0	2.2	0	2.2	Chargeable

III.A.2.a. EXISTING COURSES

TRAINING ACTIVITY: MTU-4032 NAMTRAU
LOCATION, UIC: NAS Norfolk, 66046

CIN, COURSE TITLE: D-646-7001, Strike Armament Equipment Intermediate Maintenance

SOURCE: NAVY **STUDENT CATEGORY:** ACDU-TAR

CY04		FY05		FY06		FY07		FY08		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
0	40.0	0	40.0	0	40.0	0	40.0	0	40.0	ATIR
0	36.0	0	36.0	0	36.0	0	36.0	0	36.0	Output
0	6.6	0	6.6	0	6.6	0	6.6	0	6.6	AOB
0	6.6	0	6.6	0	6.6	0	6.6	0	6.6	Chargeable

CIN, COURSE TITLE: D-646-7007, General Shipboard/NAS Weapons Department AVORD Maintenance

SOURCE: NAVY **STUDENT CATEGORY:** ACDU-TAR

CY04		FY05		FY06		FY07		FY08		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
0	60.0	0	60.0	0	60.0	0	60.0	0	60.0	ATIR
0	54.0	0	54.0	0	54.0	0	54.0	0	54.0	Output
0	6.6	0	6.6	0	6.6	0	6.6	0	6.6	AOB
0	6.6	0	6.6	0	6.6	0	6.6	0	6.6	Chargeable

CIN, COURSE TITLE: C-646-4109, Weapons Department General Aviation Ordnance

SOURCE: NAVY **STUDENT CATEGORY:** ACDU-TAR

CY04		FY05		FY06		FY07		FY08		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
0	50.0	0	50.0	0	50.0	0	50.0	0	50.0	ATIR
0	45.0	0	45.0	0	45.0	0	45.0	0	45.0	Output
0	1.8	0	1.8	0	1.8	0	1.8	0	1.8	AOB
0	1.8	0	1.8	0	1.8	0	1.8	0	1.8	Chargeable

III.A.2.a. EXISTING COURSES

TRAINING ACTIVITY: MTU-4033 NAMTRAU
LOCATION, UIC: NAS North Island, 66065

CIN, COURSE TITLE: E-646-7001, Strike Armament Equipment Intermediate Maintenance

SOURCE: NAVY **STUDENT CATEGORY:** ACDU-TAR

CY04		FY05		FY06		FY07		FY08		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
0	64.0	0	64.0	0	64.0	0	64.0	0	64.0	ATIR
0	57.6	0	57.6	0	57.6	0	57.6	0	57.6	Output
0	10.5	0	10.5	0	10.5	0	10.5	0	10.5	AOB
0	10.5	0	10.5	0	10.5	0	10.5	0	10.5	Chargeable

CIN, COURSE TITLE: E-646-7007, General Shipboard/NAS Weapons Department AVORD Maintenance

SOURCE: NAVY **STUDENT CATEGORY:** ACDU-TAR

CY04		FY05		FY06		FY07		FY08		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
0	72.0	0	72.0	0	72.0	0	72.0	0	72.0	ATIR
0	64.8	0	64.8	0	64.8	0	64.8	0	64.8	Output
0	7.9	0	7.9	0	7.9	0	7.9	0	7.9	AOB
0	7.9	0	7.9	0	7.9	0	7.9	0	7.9	Chargeable

CIN, COURSE TITLE: C-646-4109, Weapons Department General Aviation Ordnance

SOURCE: NAVY **STUDENT CATEGORY:** ACDU-TAR

CY04		FY05		FY06		FY07		FY08		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
0	72.0	0	72.0	0	72.0	0	72.0	0	72.0	ATIR
0	64.8	0	64.8	0	64.8	0	64.8	0	64.8	Output
0	2.6	0	2.6	0	2.6	0	2.6	0	2.6	AOB
0	2.6	0	2.6	0	2.6	0	2.6	0	2.6	Chargeable

TRAINING ACTIVITY: MTU-4034 NAMTRAMARU
LOCATION, UIC: MCAS Cherry Point, 66047

CIN, COURSE TITLE: M-646-7026, Aircraft Ordnance Intermediate Maintenance

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CY04		FY05		FY06		FY07		FY08		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
0	240	0	240	0	240	0	240	0	240	ATIR
0	216	0	216	0	216	0	216	0	216	Output
0	48.1	0	48.1	0	48.1	0	48.1	0	48.1	AOB
0	48.1	0	48.1	0	48.1	0	48.1	0	48.1	Chargeable

III.A.2.a. EXISTING COURSES

TRAINING ACTIVITY: MTU-4035 NAMTRAU
LOCATION, UIC: NAS Whidbey Island, 66058

CIN, COURSE TITLE: E-646-7007, General Shipboard/NAS Weapons Department AVORD Maintenance

SOURCE: NAVY **STUDENT CATEGORY:** ACDU-TAR

CY04		FY05		FY06		FY07		FY08		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
0	72.0	0	72.0	0	72.0	0	72.0	0	72.0	ATIR
0	64.8	0	64.8	0	64.8	0	64.8	0	64.8	Output
0	7.9	0	7.9	0	7.9	0	7.9	0	7.9	AOB
0	7.9	0	7.9	0	7.9	0	7.9	0	7.9	Chargeable

CIN, COURSE TITLE: C-646-4109, Weapons Department General Aviation Ordnance

SOURCE: NAVY **STUDENT CATEGORY:** ACDU-TAR

CY04		FY05		FY06		FY07		FY08		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
0	72.0	0	72.0	0	72.0	0	72.0	0	72.0	ATIR
0	64.8	0	64.8	0	64.8	0	64.8	0	64.8	Output
0	2.6	0	2.6	0	2.6	0	2.6	0	2.6	AOB
0	2.6	0	2.6	0	2.6	0	2.6	0	2.6	Chargeable

PART IV - TRAINING LOGISTICS SUPPORT REQUIREMENTS

The following elements are not affected by the AIM-9X and, therefore, are not included in this NTSP.

IV.C. Facility Requirements

IV.A. TRAINING HARDWARE

IV.A.1. TTE/GPTE/SPTE/ST/GPETE/SPETE

TRAINING ACTIVITY: NATTC, AO "A" School
LOCATION, UIC: NAS Pensacola, 63082
CIN, COURSE TITLE: C-646-2011, Aviation Ordnanceman Common Core Class A1
C-646-2012, Aviation Ordnanceman Navy Difference Training Strand Class A1

ITEM NUMBER	EQUIPMENT	TYPE OR RANGE OF REPAIR PARTS	QUANT REQD	DATE REQD	GFE CFE	STATUS
TTE						
001	CNU-609/E	See I.J.5	1	FY03	GFE	On Hand
002	LAU-7D/A	NA	1	FY04	GFE	Expected Feb 04
006	CNU-644/E	NA	1	FY03	GFE	On Hand
007	CNU-645/E	NA	1	FY03	GFE	On Hand

TRAINING ACTIVITY: SFWS Atlantic
LOCATION, UIC: NAS Oceana, 47084
CIN, COURSE TITLE: D-646-0640, F/A-18 Conventional Weapons Loading
D-646-0647, F/A-18 Conventional Release Systems Test

ITEM NUMBER	EQUIPMENT	TYPE OR RANGE OF REPAIR PARTS	QUANT REQD	DATE REQD	GFE CFE	STATUS
TTE						
002	LAU-7D/A	NA	2	FY03	GFE	Allocated[8]
003	AN/AWM-100 P/N 74D750051-1007	NA	1	FY03	GFE	Allocated[8]

TRAINING ACTIVITY: SFWS Pacific
LOCATION, UIC: NAS Lemoore, 35185
CIN, COURSE TITLE: E-646-0640, F/A-18 Conventional Weapons Loading
E-646-0647, F/A-18 Conventional Release Systems Test

ITEM NUMBER	EQUIPMENT	TYPE OR RANGE OF REPAIR PARTS	QUANT REQD	DATE REQD	GFE CFE	STATUS
TTE						
002	LAU-7D/A	NA	2	FY03	GFE	Allocated[8]
003	AN/AWM-100 P/N 74D750051-1007	NA	1	FY03	GFE	Allocated[8]

[8] Allocations for technical training equipment allow the activity to request these assets from the local AIMD/Support Activity, and, provided the assets are available, check them out.

IV.A.1. TTE/GPTE/SPTE/ST/GPETE/SPETE

TRAINING ACTIVITY: MTU-4030 NAMTRAGRUDET
LOCATION, UIC: NS Mayport, 66069
CIN, COURSE TITLE: C-122-3111, Air Launched Guided Missiles Intermediate Maintenance
C-646-4109, Weapons Department General Aviation Ordnance

ITEM NUMBER	EQUIPMENT	TYPE OR RANGE OF REPAIR PARTS	QUANT REQD	DATE REQD	GFE CFE	STATUS
TTE						
001	CNU-609/E	See I.J.5	1	FY03	GFE	On Hand
005	TTU-574/E24A AIM-9X CMBRE TPS	See I.J.5	1	FY03	GFE	On Hand
006	CNU-644/E	NA	1	FY03	GFE	On Hand
007	CNU-645/E	NA	1	FY03	GFE	On Hand
N78-NTSP-A-50-9104-TTE-002	AN/GYQ-79 CMBRE	NA	1	FY03	GFE	On Hand
N78-NTSP-A-50-9104-TTE-003	Pacific™ 315-ASX	NA	1	FY03	GFE	On Hand

TRAINING ACTIVITY: MTU-4032 NAMTRAU
LOCATION, UIC: NAS Norfolk, 66046
CIN, COURSE TITLE: C-122-3111, Air Launched Guided Missiles Intermediate Maintenance
C-646-3118, Strike Armament Systems Intermediate Maintenance
C-646-4109, Weapons Department General Aviation Ordnance

ITEM NUMBER	EQUIPMENT	TYPE OR RANGE OF REPAIR PARTS	QUANT REQD	DATE REQD	GFE CFE	STATUS
TTE						
001	CNU-609/E	See I.J.5	1	FY03	GFE	On Hand
002	LAU-7D/A	NA	2	FY04	GFE	Expected Feb 04
004	A/E37T-35 CRALTS (LAU-7D/A compatible)	NA	3	FY03	GFE	On Hand
005	TTU-574/E24A AIM-9X CMBRE TPS	See I.J.5	1	FY03	GFE	On Hand
006	CNU-644/E	NA	1	FY03	GFE	On Hand
007	CNU-645/E	NA	1	FY03	GFE	On Hand
N78-NTSP-A-50-9104-TTE-002	AN/GYQ-79 CMBRE	NA	1	FY03	GFE	On Hand
N78-NTSP-A-50-9104-TTE-003	Pacific™ 315-ASX	NA	1	FY03	GFE	On Hand

IV.A.1. TTE/GPTE/SPTE/ST/GPETE/SPETE

TRAINING ACTIVITY: MTU-4033 NAMTRAU
LOCATION, UIC: NAS North Island, 66065
CIN, COURSE TITLE: C-122-3111, Air Launched Guided Missiles Intermediate Maintenance
C-646-3118, Strike Armament Systems Intermediate Maintenance
C-646-4109, Weapons Department General Aviation Ordnance

ITEM NUMBER	EQUIPMENT	TYPE OR RANGE OF REPAIR PARTS	QUANT REQD	DATE REQD	GFE CFE	STATUS
TTE						
001	CNU-609/E	See I.J.5	1	FY03	GFE	On Hand
002	LAU-7D/A	NA	2	FY04	GFE	On Hand
004	A/E37T-35 CRALTS (LAU-7D/A compatible)	NA	3	FY03	GFE	On Hand
005	TTU-574/E24A AIM-9X CMBRE TPS	See I.J.5	1	FY03	GFE	On Hand
006	CNU-644/E	NA	1	FY03	GFE	On Hand
007	CNU-645/E	NA	1	FY03	GFE	On Hand
N78-NTSP-A-50-9104-TTE-002	AN/GYQ-79 CMBRE	NA	1	FY03	GFE	On Hand
N78-NTSP-A-50-9104-TTE-003	Pacific™ 315-ASX	NA	1	FY03	GFE	On Hand

IV.A.1. TTE/GPTE/SPTE/ST/GPETE/SPETE

TRAINING ACTIVITY: MTU-4034 NAMTRAMARU
LOCATION, UIC: MCAS Cherry Point, 66047
CIN, COURSE TITLE: C-646-3105, Aviation Ordnance Intermediate Maintenance Technician

ITEM NUMBER	EQUIPMENT	TYPE OR RANGE OF REPAIR PARTS	QUANT REQD	DATE REQD	GFE CFE	STATUS
TTE						
001	CNU-609/E	See I.J.5	1	FY03	GFE	On Hand
002	LAU-7D/A	NA	2	FY04	GFE	Expected Feb 04
004	A/E37T-35 CRALTS (LAU-7D/A compatible)	NA	4	FY03	GFE	On Hand
005	TTU-574/E24A AIM-9X CMBRE TPS	See I.J.5	1	FY03	GFE	On Hand
006	CNU-644/E	NA	1	FY03	GFE	On Hand
007	CNU-645/E	NA	1	FY03	GFE	On Hand
N78-NTSP-A-50-9104-TTE-002	AN/GYQ-79 CMBRE	NA	1	FY03	GFE	On Hand
N78-NTSP-A-50-9104-TTE-003	Pacific™ 315-ASX	NA	1	FY03	GFE	On Hand

TRAINING ACTIVITY: MTU-4035 NAMTRAU
LOCATION, UIC: NAS Whidbey Island, 66058
CIN, COURSE TITLE: C-122-3111, Air Launched Guided Missiles Intermediate Maintenance
C-646-4109, Weapons Department General Aviation Ordnance

ITEM NUMBER	EQUIPMENT	TYPE OR RANGE OF REPAIR PARTS	QUANT REQD	DATE REQD	GFE CFE	STATUS
TTE						
001	CNU-609/E	See I.J.5	1	FY03	GFE	On Hand
005	TTU-574/E24A AIM-9X CMBRE TPS	See I.J.5	1	FY03	GFE	On Hand
006	CNU-644/E	NA	1	FY03	GFE	On Hand
007	CNU-645/E	NA	1	FY03	GFE	On Hand
N78-NTSP-A-50-9104-TTE-002	AN/GYQ-79 CMBRE	NA	1	FY03	GFE	On Hand
N78-NTSP-A-50-9104-TTE-003	Pacific™ 315-ASX	NA	1	FY03	GFE	On Hand

IV.A.2. TRAINING DEVICES

DEVICE: Captive Air Training Missile, CATM-9X (NALC CWMB)

DESCRIPTION OF DEVICE: The CATM is a captive flight training missile permitting realistic exercise of the AIM-9X seeker. Airborne operation of the CATM provides the operator all interaction between aircraft and missile without expending the missile.

MANUFACTURER: RMS

CONTRACT NUMBER: N00019-97-C-0027, LRIP Lots 1, 2 and 3 options have been exercised for 116 CATM-9X. The balance of CATM-9X quantities is contingent upon exercise of LRIP Lot IV and additional Full-rate Production contract award.

TEE STATUS: NA

TRAINING ACTIVITY LOCATION, UIC	QUANT REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
VFA-106 NAS Oceana, 09679	28	FY04	FY04	On contract[7]	D-2A-0601 D-2A-0602 D-2A-0604 D-2A-0606
VFA-125 NAS Lemoore, 09485	28	FY04	FY04	On contract[7]	E-2A-0601 E-2A-0602 E-2A-0604 E-2A-0606
VMFAT-101 MCAS Miramar, 09965	28	FY04	FY04	On contract[7]	M13P4B3 M13P3V3 M13P3W3 M13P4C3 M13P3R3 M13P3S3
SFWS Atlantic NAS Oceana, 40784	14	FY04	FY03	On contract[7]	SFARP SFWE D-646-0640 D-646-0647
SFWS Pacific NAS Lemoore, 35185	14	FY04	FY03	On contract[7]	SFARP SFWE E-646-0640 E-646-0647
Naval Strike and Air Warfare Center N7 (Topgun) NAS Fallon, 69190	14	FY04	FY03	On contract[7]	SFTP SFTI
MAWTS 1, MCAS Yuma, 55167	14	FY04	FY03	On contract[7]	ACTI/ACMI/ DEFTACI/WTI
VFA-25, NAS Lemoore, 09637	14	FY03	FY03	10 On Hand 4 On contract[7]	T&R/SFTP
VFA-94, NAS Lemoore, 09295	14	FY04	FY04	On contract[7]	T&R/SFTP
VFA-97, NAS Lemoore, 63923	14	FY04	FY04	On contract[7]	T&R/SFTP
VFA-113, NAS Lemoore, 09092	14	FY03	FY03	10 On Hand 4 On contract[7]	T&R/SFTP

IV.A.2. TRAINING DEVICES

DEVICE: Captive Air Training Missile, CATM-9X (NALC CWMB)

DESCRIPTION OF DEVICE: The CATM is a captive flight training missile permitting realistic exercise of the AIM-9X seeker. Airborne operation of the CATM provides the operator all interaction between aircraft and missile without expending the missile.

MANUFACTURER: RMS

CONTRACT NUMBER: N00019-97-C-0027, LRIP Lots 1, 2 and 3 options have been exercised for 116 CATM-9X. The balance of CATM-9X quantities is contingent upon exercise of LRIP Lot IV and additional Full-rate Production contract award.

TEE STATUS: NA

TRAINING ACTIVITY LOCATION, UIC	QUANT REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
VFA-146, NAS Lemoore, 09063	14	FY04	FY04	On contract[7]	T&R/SFTP
VFA-147, NAS Lemoore, 63925	14	FY04	FY04	On contract[7]	T&R/SFTP
VFA-151, NAS Lemoore, 09558	14	FY04	FY04	On contract[7]	T&R/SFTP
VFA-192, NAF Atsugi, 55179	14	FY04	FY04	4 On Hand 10 On contract[7]	T&R/SFTP
VFA-195, NAF Atsugi, 09706	14	FY04	FY04	4 On Hand 10 On contract[7]	T&R/SFTP
VFA-127, NAS Fallon, 08956	14	FY04	FY04	On contract[7]	T&R/SFTP
VFC-13 (TAR), NAS Fallon, 52995	14	FY04	FY04	On contract[7]	T&R/SFTP
VFA-15, NAS Oceana, 09015	14	FY04	FY04	On contract[7]	T&R/SFTP
VFA-34, NAS Oceana, 09070	14	FY04	FY04	On contract[7]	T&R/SFTP
VFA-37, NAS Oceana, 09478	14	FY04	FY04	On contract[7]	T&R/SFTP
VFA-83, NAS Oceana, 09223	14	FY04	FY04	On contract[7]	T&R/SFTP
VFA-87, NAS Oceana, 63922	14	FY04	FY04	On contract[7]	T&R/SFTP
VFA-105, NAS Oceana, 65183	14	FY04	FY04	On contract[7]	T&R/SFTP
VFA-131, NAS Oceana, 63934	14	FY04	FY04	On contract[7]	T&R/SFTP
VFA-136, NAS Oceana, 55141	14	FY04	FY04	On contract[7]	T&R/SFTP
VFA-82, MCAS Beaufort, 09122	14	FY04	FY04	On contract[7]	T&R/SFTP
VFA-86, MCAS Beaufort, 09943	14	FY04	FY04	On contract[7]	T&R/SFTP
VFC-12 (TAR), NAS Oceana, 52994	14	FY05	FY05	On contract[7]	T&R/SFTP
VFA-201 (TAR), NAS JRB Fort Worth, 09309	14	FY05	FY05	On contract[7]	T&R/SFTP
VFA-203 (TAR), NAS JRB Atlanta, 09030	14	FY05	FY05	On contract[7]	T&R/SFTP
VFA-204 (TAR), NAS JRB New Orleans, 09032	14	FY05	FY05	On contract[7]	T&R/SFTP
VX-1, NAS Patuxent River, 55600	14	FY03	FY03	1 On Hand 13 On contract[7]	T&R/SFTP
VX-9, NAWCWD China Lake, 55646	14	FY03	FY03	2 On Hand 12 On contract[7]	T&R/SFTP

IV.A.2. TRAINING DEVICES

DEVICE: Captive Air Training Missile, CATM-9X (NALC CWMB)

DESCRIPTION OF DEVICE: The CATM is a captive flight training missile permitting realistic exercise of the AIM-9X seeker. Airborne operation of the CATM provides the operator all interaction between aircraft and missile without expending the missile.

MANUFACTURER: RMS

CONTRACT NUMBER: N00019-97-C-0027, LRIP Lots 1, 2 and 3 options have been exercised for 116 CATM-9X. The balance of CATM-9X quantities is contingent upon exercise of LRIP Lot IV and additional Full-rate Production contract award.

TEE STATUS: NA

TRAINING ACTIVITY LOCATION, UIC	QUANT REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
VX-9 Det, NAWCWD Point Mugu, 09830	14	FY04	FY04	On contract[7]	T&R/SFTP
NAVWPNTESTRON China Lake, 39787	14	FY04	FY04	On contract[7]	T&R/SFTP
NAVWPNTESTRON Point Mugu, 39788	14	FY04	FY04	On contract[7]	T&R/SFTP
NAVSTKAIRTESTRON, NAS Patuxent River, 39783	14	FY04	FY04	On contract[7]	T&R/SFTP
VMFA-115, MCAS Beaufort, 09234	14	FY04	FY04	On contract[7]	T&R
VMFA-122, MCAS Beaufort, 09407	14	FY04	FY04	On contract[7]	T&R
VMFA-251, MCAS Beaufort, 09241	14	FY04	FY04	On contract[7]	T&R
VMFA-312, MCAS Beaufort, 09253	14	FY04	FY04	On contract[7]	T&R
VMFA(AW)-224, MCAS Beaufort, 01224	18	FY04	FY04	On contract[7]	T&R
VMFA(AW)-332, MCAS Beaufort, 09501	18	FY04	FY04	On contract[7]	T&R
VMFA(AW)-533, MCAS Beaufort, 09193	18	FY04	FY04	On contract[7]	T&R
VMFA-212, MCAS Iwakuni, 09434	14	FY03	FY03	10 On Hand 4 On contract[7]	T&R
VMFA-232, MCAS Miramar, 09242	14	FY04	FY04	On contract[7]	T&R
VMFA-314, MCAS Miramar, 09230	14	FY04	FY04	On contract[7]	T&R
VMFA-323, MCAS Miramar, 09235	14	FY04	FY04	On contract[7]	T&R
VMFA(AW)-121, MCAS Miramar, 09257	18	FY04	FY04	On contract[7]	T&R
VMFA(AW)-225, MCAS Miramar, 09232	18	FY04	FY04	On contract[7]	T&R
VMFA(AW)-242, MCAS Miramar, 09668	18	FY04	FY04	On contract[7]	T&R
VMFA-112 (AR), JRB Fort Worth, 08954	14	FY06	FY06	On contract[7]	T&R
VMFA-134 (AR), MCAS Miramar, 09365	14	FY06	FY06	On contract[7]	T&R
VMFA-142 (AR), JRB Atlanta, 67243	14	FY06	FY06	On contract[7]	T&R
VMFA-321 (AR), NAF Washington, 67235	14	FY06	FY06	On contract[7]	T&R
VFA-122, NAS Lemoore, 09355 (E/F)	28	FY05	FY05	PBBS	T&R
SWATSLANT, NAS Oceana, 47157 (E/F)	14	FY05	FY05	PBBS	T&R/SFTP/SFARP
VFA-115, NAS Lemoore, 09604 (E)	14	FY05	FY05	On contract[7]	T&R/SFTP
VFA-14, NAS Oceana, 09084 (E)	14	FY05	FY05	PBBS	T&R/SFTP
VFA-41, NAS Oceana, 09774 (F)	14	FY05	FY05	PBBS	T&R/SFTP
VFA-102, NAS Oceana, 09717 (F)	14	FY05	FY05	PBBS	T&R/SFTP

IV.A.2. TRAINING DEVICES

DEVICE: Captive Air Training Missile, CATM-9X (NALC CWMB)

DESCRIPTION OF DEVICE: The CATM is a captive flight training missile permitting realistic exercise of the AIM-9X seeker. Airborne operation of the CATM provides the operator all interaction between aircraft and missile without expending the missile.

MANUFACTURER: RMS

CONTRACT NUMBER: N00019-97-C-0027, LRIP Lots 1, 2 and 3 options have been exercised for 116 CATM-9X. The balance of CATM-9X quantities is contingent upon exercise of LRIP Lot IV and additional Full-rate Production contract award.

TEE STATUS: NA

TRAINING ACTIVITY LOCATION, UIC	QUANT REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
VFA-137, NAS Lemoore, 55142 (E)	14	FY05	FY05	On contract[7]	T&R/SFTP
VFA-2, NAS Oceana, 09113 (F)	14	FY05	FY05	PBBS	T&R/SFTP
VFA-22, NAS Lemoore, 09561 (E)	14	FY05	FY05	On contract[7]	T&R/SFTP
VFA-154, NAS Oceana, 09678 (F)	14	FY05	FY05	PBBS	T&R/SFTP
VFA-27, NAF Atsugi, 65185 (E)	14	FY05	FY05	On contract[7]	T&R/SFTP
VFA-81, NAS Oceana, 09221 (E)	14	FY06	FY06	On contract[7]	T&R/SFTP
VFA-103, NAS Oceana, 09718 (F)	14	FY06	FY06	PBBS	T&R/SFTP
VF-32, NAS Oceana, 09053	14	FY08	FY08	PBBS	T&R/SFTP
VF-211, NAS Oceana, 09086	14	FY07	FY07	PBBS	T&R/SFTP
VF-213, NAS Oceana, 09934	14	FY09	FY09	PBBS	T&R/SFTP
VF-11, NAS Oceana, 09560	14	FY09	FY09	PBBS	T&R/SFTP
VF-143, NAS Oceana, 09281	14	FY09	FY09	PBBS	T&R/SFTP
TOTAL: (86% Asset Readiness)	1116				
TOTAL: (100% Asset Readiness)	1298				

IV.A.2. TRAINING DEVICES

DEVICE: Dummy Air Training Missile, DATM-9X

DESCRIPTION OF DEVICE: The DATM is physically representative of the AIM-9X. It is a training device to facilitate instruction and familiarization for transporting, handling, loading, and visual inspection procedures for organizational- and intermediate-level training purposes. The DATM is not certified for flight, and is designed for ground training use only.

MANUFACTURER: RMS

CONTRACT NUMBER: N00019-97-C-0027 LRIP Lots 1, 2, and 3 option have been exercised for 28 DATM-9X.

TEE STATUS: NA

TRAINING ACTIVITY LOCATION, UIC	QUANT REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
MTU-4030, NAMTRAGRUDET NAS Mayport, 66069	2	FY03	FY03	On Hand	C-122-3111
MTU-4032, NAMTRAU NAS Norfolk, 66046	2	FY03	FY03	On Hand	C-122-3111
MTU-4033, NAMTRAU NAS North Island, 66065	2	FY03	FY03	On Hand	C-122-3111
MTU-4034, NAMTRAMARU MCAS Cherry Point, 66047	2	FY03	FY03	On Hand	C-646-3105
MTU-4035, NAMTRAU NAS Whidbey Island, 66058	2	FY03	FY03	On Hand	C-122-3111
CNATT, AO A1 School NAS Pensacola, 63082	2	FY03	FY03	On Hand	C-646-2011 C-646-2012
Inter Deployment Training Cycle (IDTC), Weapons Dept, NAS Fallon, 60495	1	FY03	FY03	On Hand	Qual/Cert Program
IDTC, MALS-11, MCAS Miramar, 09111	2	FY03	FY03	On Hand	Qual/Cert Program
IDTC, MALS-12, MCAS Iwakuni, 09377	2	FY03	FY03	On Hand	Qual/Cert Program
IDTC, CV-63, Yokosuka/NAS Atsugi, 03363	2	FY03	FY03	On Hand	Qual/Cert Program
IDTC, MOTT, Norfolk (FASOTRAGRULANT), 09810	2	FY03	FY03	On Hand	Qual/Cert Program
IDTC, MOTT (AIRPAC), North Island, 57025	1	FY03	FY03	On Hand	Qual/Cert Program
IDTC, MALS-31, MCAS Beaufort, 09384	2	FY04	FY04	On contract[7]	Qual/Cert Program
NAF Washington Andrews AFB, Maryland, 00166	1	FY05	FY05	On contract[7]	F/A-18 Conventional Weapons Loading
NAS JRB Atlanta Marietta, Georgia, 00196	1	FY05	FY05	On contract[7]	F/A-18 Conventional Weapons Loading
NAS JRB New Orleans New Orleans, Louisiana, 00206	1	FY05	FY05	On contract[7]	F/A-18 Conventional Weapons Loading
NAS JRB Fort Worth Fort Worth, Texas, 00215	1	FY05	FY05	On contract[7]	F/A-18 Conventional Weapons Loading
TOTAL:	28				

IV.A.2. TRAINING DEVICES

DEVICE: Practical Explosive Ordnance Disposal System Trainer (PEST)

DESCRIPTION OF DEVICE: The AIM-9X PEST is a full-scale model fabricated from actual hardware, having approximately the same weight and center of gravity as the tactical missile. The PEST is used for teaching and practicing Rendering Safe Procedures.

MANUFACTURER: RMS

CONTRACT NUMBER: N00019-97-C-0027 LRIP Lot 1 option has been exercised for 6 PEST-9X.

TEE STATUS: NA

TRAINING ACTIVITY LOCATION, UIC	QUANT REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
NAVSCOLEOD Eglin AFB, 62640	4	FY02	FY03	On hand	A-431-0011 A-431-0012
EODTEU ONE San Diego, 30202	1	FY02	FY03	On hand	G-431-0001
EODTEU TWO Fort Story, 43505	1	FY02	FY03	On hand	G-431-0001

DEVICE: Classroom Explosive Ordnance Disposal System Trainer (CEST)

DESCRIPTION OF DEVICE: The AIM-9X CEST is a full-scale, inert replica of the tactical AIM-9X with cut-away areas exposing the explosive train components. EOD instructors use the CEST to teach EOD personnel missile Rendering Safe Procedures.

MANUFACTURER: RMS

CONTRACT NUMBER: N00019-97-C-0027 LRIP Lot 1 option has been exercised for 1 CEST-9X.

TEE STATUS: NA

TRAINING ACTIVITY LOCATION, UIC	QUANT REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
NAVSCOLEOD Eglin AFB, 62640	1	FY02	FY03	On hand	A-431-0011 A-431-0012

IV.B. COURSEWARE REQUIREMENTS

IV.B.1 TRAINING SERVICES

COURSE/TYPE OF TRAINING	SCHOOL/LOCATION/UIC	NO. OF PERSONNEL	MAN WEEKS REQUIRED	BEGIN DATE
AIM-9X Aircrew Familiarization/ Initial (Instructor)				
	SFWSP/NAS Lemoore/35185	2	0.4	FY03
	VFA-125/NAS Lemoore/09485	2	0.4	FY03
	SFWSL/NAS Oceana/47084	2	0.4	FY03
	VFA-106/NAS Oceana/09679	2	0.4	FY03
AIM-9X Organizational Maintenance for the F/A-18C/D/ Initial (Instructor)				
	SFWSP/NAS Lemoore/35185	2	0.4	FY03
	SFWSL/NAS Oceana/47084	2	0.4	FY03
	AO A1/NAS Pensacola/63082	2	0.4	FY03
AIM-9X Intermediate Maintenance/ Initial (Instructor)				
	MTU 4030/NS Mayport/66069	2	0.8	FY03
	MTU 4032/NAS Norfolk/66046	2	0.8	FY03
	MTU 4033/NAS North Island/66065	2	0.8	FY03
	MTU 4034 FREST/ MCAS Cherry Point/45483	2	0.8	FY03
	MTU 4035/NAS Whidbey Island/ 66065	2	0.8	FY03
	AO A1/NAS Pensacola/63082	2	0.8	FY03

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

TRAINING ACTIVITY: VFA-106
LOCATION, UIC: NAS Oceana, 09679
CIN, COURSE TITLE: D-2A-0601, F/A-18 Fleet Replacement Pilot Cat 1
D-2A-0602, F/A-18 Fleet Replacement Pilot Cat 2A
D-2A-0604, F/A-18 Fleet Replacement Pilot Cat 3A
D-2A-0606, F/A-18 Fleet Replacement Pilot Cat 4

TYPE OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
SFTS AIM-9X Aircrew ICW	1 Set	FY03	Beta version On-hand Version 1.0 Mar 04

TRAINING ACTIVITY: VFA-125
LOCATION, UIC: NAS Lemoore, 09485
CIN, COURSE TITLE: E-2A-0601, F/A-18 Fleet Replacement Pilot Cat 1
E-2A-0602, F/A-18 Fleet Replacement Pilot Cat 2A
E-2A-0604, F/A-18 Fleet Replacement Pilot Cat 3A
E-2A-0606, F/A-18 Fleet Replacement Pilot Cat 4

TYPE OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
SFTS AIM-9X Aircrew ICW	1 Set	FY03	Beta version On-hand Version 1.0 Mar 04

TRAINING ACTIVITY: VMFAT-101
LOCATION, UIC: MCAS Miramar, 45526
CIN, COURSE TITLE: M13P4B3, F/A-18 Fleet Replacement Pilot Basic and Transition
M13P3V3, F/A-18 Fleet Replacement Pilot Refresher
M13P3W3, F/A-18 Fleet Replacement Pilot Modified Refresher
M13P4C3, F/A-18 WSO Basic and Transition
M13P3R3, F/A-18 WSO Refresher
M13P3S3, F/A-18 WSO Modified Refresher

TYPE OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
SFTS AIM-9X Aircrew ICW	1 Set	FY03	Beta version On-hand Version 1.0 Mar 04

TRAINING ACTIVITY: Strike Fighter Weapons School Atlantic
LOCATION, UIC: NAS Oceana, 40784
CIN, COURSE TITLE: Strike Fighter Advanced Readiness Program (SFARP)
Strike Fighter Weapons Employment (SFWE)

TYPE OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
SFTS AIM-9X Aircrew ICW	1 Set	FY03	Beta version On-hand Version 1.0 Mar 04

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

TRAINING ACTIVITY: Strike Fighter Weapons School Pacific
LOCATION, UIC: NAS Lemoore, 35185
CIN, COURSE TITLE: Strike Fighter Advanced Readiness Program (SFARP)
Strike Fighter Weapons Employment (SFWE)

TYPE OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
SFTS AIM-9X Aircrew ICW	1 Set	FY03	Beta version On-hand Version 1.0 Mar 04

TRAINING ACTIVITY: Naval Strike and Air Warfare Center N7 (Topgun)
LOCATION, UIC: NAS Fallon, 69190
CIN, COURSE TITLE: Strike Fighter Training Program (SFTP)
Strike Fighter Tactics Instructor (SFTI)
Strike Fighter Weapons and Tactics (SFWT)

TYPE OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
SFTS AIM-9X Aircrew ICW	1 Set	FY03	Beta version On-hand Version 1.0 Mar 04

TRAINING ACTIVITY: MAWTS 1
LOCATION, UIC: MCAS Yuma, 55167
CIN, COURSE TITLE: Air Combat Maneuvering Instructor (ACMI)
Air Combat Tactics Instructor (ACTI)
Defensive Tactics Instructor (DEFTACI)
Weapons and Tactics Instructor (WTI)

TYPE OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
SFTS AIM-9X Aircrew ICW	1 Set	FY03	Beta version On-hand Version 1.0 Mar 04

TRAINING ACTIVITY: F/A-18 Squadrons
LOCATION, UIC: **See Below**

CIN, COURSE TITLE: SFTP and Training & Readiness (T&R)

TYPES OF MATERIAL OR AID:	QUANT REQD	DATE REQD	STATUS
SFTS AIM-9X Aircrew ICW	1 Set	FY03	Beta version On-hand Version 1.0 Mar 04

LOCATION, UIC:

VFA-22, NAS Lemoore, 09561
VFA-25, NAS Lemoore, 09637
VFA-94, NAS Lemoore, 09295
VFA-97, NAS Lemoore, 63923
VFA-113, NAS Lemoore, 09092
VFA-115, NAS Lemoore, 09604
VFA-137, NAS Lemoore, 55142
VFA-146, NAS Lemoore, 09063

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

TRAINING ACTIVITY: F/A-18 Squadrons
LOCATION, UIC: **See Below**

CIN, COURSE TITLE: SFTP and Training & Readiness (T&R)

TYPES OF MATERIAL OR AID:	QUANT REQD	DATE REQD	STATUS
VFA-147, NAS Lemoore, 63925			
VFA-151, NAS Lemoore, 09558			
VFA-27, NAF Atsugi, 65185			
VFA-192, NAF Atsugi, 55179			
VFA-195, NAF Atsugi, 09706			
VFA-82, MCAS Beaufort, 09122			
VFA-86 MCAS Beaufort, 09943			
VFA-15, NAS Oceana, 09015			
VFA-34, NAS Oceana, 09070			
VFA-37, NAS Oceana, 09478			
VFA-81, NAS Oceana, 09221			
VFA-83, NAS Oceana, 09223			
VFA-87, MCAS Beaufort, 63922			
VFA-105, NAS Oceana, 65183			
VFA-131, NAS Oceana, 63934			
VFA-136, NAS Oceana, 55141			
VFA-201 (TAR), NAS JRB Fort Worth, 09309			
VFA-203 (TAR), NAS JRB Atlanta, 09030			
VFA-204 (TAR), NAS JRB New Orleans, 09032			
VX-9, NAWCWD China Lake, 55646			
VX-9 Det, NAWCWD Point Mugu, 09830			

TRAINING ACTIVITY: F/A-18 Squadrons
LOCATION, UIC: **See Below**

CIN, COURSE TITLE: Squadron Training (T&R)

TYPES OF MATERIAL OR AID:	QUANT REQD	DATE REQD	STATUS
SFTS AIM-9X Aircrew ICW	1 Set	FY03	Beta version On-hand Version 1.0 Mar 04

LOCATION, UIC:
VMFA-115, MCAS Beaufort, 09234
VMFA-122, MCAS Beaufort, 09407
VMFA-251, MCAS Beaufort, 09241
VMFA-312, MCAS Beaufort, 09253
VMFA(AW)-224, MCAS Beaufort, 01224

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

TRAINING ACTIVITY: F/A-18 Squadrons
LOCATION, UIC: **See Below**

CIN, COURSE TITLE: Squadron Training (T&R)

TYPES OF MATERIAL OR AID:	QUANT REQD	DATE REQD	STATUS
VMFA(AW)-332, MCAS Beaufort, 09501			
VMFA(AW)-533, MCAS Beaufort, 09193			
VMFA-212, MCAS Iwakuni, 09434			
VMFA-232, MCAS Miramar, 09242			
VMFA-314, MCAS Miramar, 09230			
VMFA-323, MCAS Miramar, 09235			
VMFA(AW)-121, MCAS Miramar, 09257			
VMFA(AW)-225, MCAS Miramar, 09232			
VMFA(AW)-242, MCAS Miramar, 09668			
VMFA-112 (AR), JRB Fort Worth, 08954			
VMFA-134 (AR), MCAS Miramar, 09365			
VMFA-142 (AR), JRB Atlanta, 67243			
VMFA-321 (AR), NAF Washington, 67235			

TRAINING ACTIVITY: NATTC, AO "A" School
LOCATION, UIC: NAS Pensacola, 63082
CIN, COURSE TITLE: C-646-2011, Aviation Ordnance Common Core Class A1
C-646-2012, Aviation Ordnanceman Navy Difference Training Strand

TYPE OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
AIM-9X Training Package	1 Set[9]	FY03	On Hand

TRAINING ACTIVITY: SFWS Atlantic
LOCATION, UIC: NAS Oceana, 47084
CIN, COURSE TITLE: D-646-0640, F/A-18 Conventional Weapons Loading
D-646-0647, F/A-18 Conventional Release System Test

TYPE OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
AIM-9X Training Package	1 Set[8]	FY03	On Hand

[9] Training package consists of Lesson Plan, Trainee Guide, Student Handbook, and Visual Aids.

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

TRAINING ACTIVITY: SFWS Pacific
LOCATION, UIC: NAS Lemoore, 35185
CIN, COURSE TITLE: E-646-0640, F/A-18 Conventional Weapons Loading
E-646-0647, F/A-18 Conventional Release System Test

TYPE OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
AIM-9X Training Package	1 Set[8]	FY03	On Hand

TRAINING ACTIVITY: MTU-4030 NAMTRAGRUDET
LOCATION, UIC: NS Mayport, 66069
CIN, COURSE TITLE: C-122-3111, Air Launched Guided Missiles Intermediate Maintenance
C-646-4109, Weapons Department General Aviation Ordnance

TYPE OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
AIM-9X Training Package	1 Set[8]	FY02	On Hand
AIM-9X/CMBRE CBT (Revision 2.2.0)	1 CD	FY02	On Hand
AIM-9X CMBRE Embedded Training PC Cards (Revision T 2.2.1)	1 Set	FY02	On Hand
AIM-9X CMBRE Embedded Training PC Cards (Revision T 4.0.1)	1 Set	FY04	Expected Dec 03
AIM-9X Intermediate Maintenance ICW (v1.0)	1 CD	FY04	Expected Dec 03

TRAINING ACTIVITY: MTU-4032 NAMTRAU
LOCATION, UIC: NAS Norfolk, 66046
CIN, COURSE TITLE: C-122-3111, Air Launched Guided Missiles Intermediate Maintenance
C-646-3118, Strike Armament Systems Intermediate Maintenance
C-646-4109, Weapons Department General Aviation Ordnance

TYPE OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
AIM-9X Training Package	1 Set[8]	FY02	On Hand
AIM-9X/CMBRE CBT (Revision 2.2.0)	1 CD	FY02	On Hand
AIM-9X CMBRE Embedded Training PC Cards (Revision T 2.2.1)	1 Set	FY02	On Hand
AIM-9X CMBRE Embedded Training PC Cards (Revision T 4.0.1)	1 Set	FY04	Expected Dec 03
AIM-9X Intermediate Maintenance ICW (v1.0)	1 CD	FY04	Expected Dec 03

TRAINING ACTIVITY: MTU-4033 NAMTRAU
LOCATION, UIC: NAS North Island, 66065
CIN, COURSE TITLE: C-122-3111, Air Launched Guided Missiles Intermediate Maintenance
C-646-3118, Strike Armament Systems Intermediate Maintenance
C-646-4109, Weapons Department General Aviation Ordnance

TYPE OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
AIM-9X Training Package	1 Set[8]	FY02	On Hand
AIM-9X/CMBRE CBT (Revision 2.2.0)	1 CD	FY02	On Hand
AIM-9X CMBRE Embedded Training PC Cards (Revision T 2.2.1)	1 Set	FY02	On Hand
AIM-9X CMBRE Embedded Training PC Cards (Revision T 4.0.1)	1 Set	FY04	Expected Dec 03
AIM-9X Intermediate Maintenance ICW (v1.0)	1 CD	FY04	Expected Dec 03

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

TRAINING ACTIVITY: MTU-4034 NAMTRAMARU
LOCATION, UIC: MCAS Cherry Point, 66047
CIN, COURSE TITLE: C-646-3105, Aviation Ordnance Intermediate Maintenance Technician

TYPE OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
AIM-9X Training Package	1 Set[8]	FY02	On Hand
AIM-9X/CMBRE CBT (Revision 2.2.0)	1 CD	FY02	On Hand
AIM-9X CMBRE Embedded Training PC Cards (Revision T 2.2.1)	1 Set	FY02	On Hand
AIM-9X CMBRE Embedded Training PC Cards (Revision T 4.0.1)	1 Set	FY04	Expected Dec 03
AIM-9X Intermediate Maintenance ICW (v1.0)	1 CD	FY04	Expected Dec 03

TRAINING ACTIVITY: MTU-4035 NAMTRAU
LOCATION, UIC: NAS Whidbey Island, 66058
CIN, COURSE TITLE: C-122-3111, Air Launched Guided Missiles Intermediate Maintenance
C-646-4109, Weapons Department General Aviation Ordnance

TYPE OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
AIM-9X Training Package	1 Set[8]	FY02	On Hand
AIM-9X/CMBRE CBT (Revision 2.2.0)	1 CD	FY02	On Hand
AIM-9X CMBRE Embedded Training PC Cards (Revision T 2.2.1)	1 Set	FY02	On Hand
AIM-9X CMBRE Embedded Training PC Cards (Revision T 4.0.1)	1 Set	FY04	Expected Dec 03
AIM-9X Intermediate Maintenance ICW (v1.0)	1 CD	FY04	Expected Dec 03

TRAINING ACTIVITY: NAVSCOLEOD
LOCATION, UIC: Eglin AFB, 62640
CIN, COURSE TITLE: A-431-0011, EOD Phase II (Navy)
A-431-0012, EOD Phase II

TYPE OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
AIM-9X Source Data	1 Set	FY02	Available

TRAINING ACTIVITY: EODTEU ONE
LOCATION, UIC: San Diego, 30202
CIN, COURSE TITLE: G-431-0001, EOD Pre-deployment Team Training

TYPE OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
AIM-9X Source Data	1 Set	FY02	Available

TRAINING ACTIVITY: EODTEU TWO
LOCATION, UIC: Fort Story, 43505
CIN, COURSE TITLE: G-431-0001, EOD Pre-deployment Team Training

TYPE OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
AIM-9X Source Data	1 Set	FY02	Available

IV.B.3. TECHNICAL MANUALS

TRAINING ACTIVITY: VFA-106
LOCATION, UIC: NAS Oceana, 09679
CIN, COURSE TITLE: D-2A-0601, F/A-18 Fleet Replacement Pilot Cat 1
D-2A-0602, F/A-18 Fleet Replacement Pilot Cat 2A
D-2A-0604, F/A-18 Fleet Replacement Pilot Cat 3A
D-2A-0606, F/A-18 Fleet Replacement Pilot Cat 4

TECHNICAL MANUAL TITLE, NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
NATOPS Flight Manual Navy Model F/A-18A/B/C/D, A1-F18AC-NFM-000	Digital or Hard copy	6	FY03	On Hand
NATOPS Pocket Checklist, A1-F18AC-NFM-500	Digital or Hard copy	6	FY03	On Hand
Tactical Manual, A1-F18AC-TAC-000	Digital or Hard copy	6	FY03	Update in process
Tactical Manual Pocket Guide, A1-F18AC-TAC-300	Digital or Hard copy	6	FY03	Update in process

NOTE: For a complete listing of required technical manuals refer to applicable training course control document. Updated manuals are available from the NATEC website.

TRAINING ACTIVITY: VFA-125
LOCATION, UIC: NAS Lemoore, 09485
CIN, COURSE TITLE: E-2A-0601, F/A-18 Fleet Replacement Pilot Cat 1
E-2A-0602, F/A-18 Fleet Replacement Pilot Cat 2A
E-2A-0604, F/A-18 Fleet Replacement Pilot Cat 3A
E-2A-0606, F/A-18 Fleet Replacement Pilot Cat 4

NATOPS Flight Manual Navy Model F/A-18A/B/C/D, A1-F18AC-NFM-000	Digital or Hard copy	6	FY03	On Hand
NATOPS Pocket Checklist, A1-F18AC-NFM-500	Digital or Hard copy	6	FY03	On Hand
Tactical Manual, A1-F18AC-TAC-000	Digital or Hard copy	6	FY03	Update in process
Tactical Manual Pocket Guide, A1-F18AC-TAC-300	Digital or Hard copy	6	FY03	Update in process

NOTE: For a complete listing of required technical manuals refer to applicable training course control document. Updated manuals are available from the NATEC website.

IV.B.3. TECHNICAL MANUALS

TRAINING ACTIVITY: SFWS Atlantic
LOCATION, UIC: NAS Oceana, 40784
CIN, COURSE TITLE: SFARP
SFWE

TECHNICAL MANUAL TITLE, NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
NATOPS Flight Manual Navy Model F/A-18A/B/C/D, A1-F18AC-NFM-000	Digital or Hard copy	6	FY03	On Hand
NATOPS Pocket Checklist, A1-F18AC-NFM-500	Digital or Hard copy	6	FY03	On Hand
Tactical Manual, A1-F18AC-TAC-000	Digital or Hard copy	6	FY03	Update in process
Tactical Manual Pocket Guide, A1-F18AC-TAC-300	Digital or Hard copy	6	FY03	Update in process

NOTE: For a complete listing of required technical manuals refer to applicable training course control document. Updated manuals are available from the NATEC website.

TRAINING ACTIVITY: SFWS Pacific
LOCATION, UIC: NAS Lemoore, 35185
CIN, COURSE TITLE: SFARP
SFWE

TECHNICAL MANUAL TITLE, NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
NATOPS Flight Manual Navy Model F/A-18A/B/C/D, A1-F18AC-NFM-000	Digital or Hard copy	6	FY03	On Hand
NATOPS Pocket Checklist, A1-F18AC-NFM-500	Digital or Hard copy	6	FY03	On Hand
Tactical Manual, A1-F18AC-TAC-000	Digital or Hard copy	6	FY03	Update in process
Tactical Manual Pocket Guide, A1-F18AC-TAC-300	Digital or Hard copy	6	FY03	Update in process

NOTE: For a complete listing of required technical manuals refer to applicable training course control document. Updated manuals are available from the NATEC website.

IV.B.3. TECHNICAL MANUALS

TRAINING ACTIVITY: Naval Strike and Air Warfare Center N7 (Topgun)
LOCATION, UIC: NAS Fallon, 69190
CIN, COURSE TITLE: Strike Fighter Training Instructor (SFTI)

TECHNICAL MANUAL TITLE, NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
NATOPS Flight Manual Navy Model F/A-18A/B/C/D, A1-F18AC-NFM-000	Digital or Hard copy	6	FY03	On Hand
NATOPS Pocket Checklist, A1-F18AC-NFM-500	Digital or Hard copy	6	FY03	On Hand
Tactical Manual, A1-F18AC-TAC-000	Digital or Hard copy	6	FY03	Update in process
Tactical Manual Pocket Guide, A1-F18AC-TAC-300	Digital or Hard copy	6	FY03	Update in process

NOTE: For a complete listing of required technical manuals refer to applicable training course control document. Updated manuals are available from the NATEC website.

TRAINING ACTIVITY: VMFAT-101
LOCATION, UIC: MCAS Miramar, 45526
CIN, COURSE TITLE: M13P4B3, F/A-18 Fleet Replacement Pilot Basic and Transition
M13P3V3, F/A-18 Fleet Replacement Pilot Refresher
M13P3W3, F/A-18 Fleet Replacement Pilot Modified Refresher
M13P4C3, F/A-18 WSO Basic and Transition
M13P3R3, F/A-18 WSO Refresher
M13P3S3, F/A-18 WSO Modified Refresher

NATOPS Flight Manual Navy Model F/A-18A/B/C/D, A1-F18AC-NFM-000	Digital or Hard copy	6	FY03	On Hand
NATOPS Pocket Checklist, A1-F18AC-NFM-500	Digital or Hard copy	6	FY03	On Hand
Tactical Manual, A1-F18AC-TAC-000	Digital or Hard copy	6	FY03	Update in process
Tactical Manual Pocket Guide, A1-F18AC-TAC-300	Digital or Hard copy	6	FY03	Update in process

NOTE: For a complete listing of required technical manuals refer to applicable training course control document. Updated manuals are available from the NATEC website.

IV.B.3. TECHNICAL MANUALS

TRAINING ACTIVITY: MAWTS 1
LOCATION, UIC: MCAS Yuma, 55167
CIN, COURSE TITLE: Air Combat Maneuvering Instructor (ACMI)
Air Combat Tactics Instructor (ACTI)
Defensive Tactics Instructor (DEFTACI)
Weapons and Tactics Instructor (WTI)

NATOPS Flight Manual Navy Model F/A-18A/B/C/D, A1-F18AC-NFM-000	Digital or Hard copy	6	FY03	On Hand
NATOPS Pocket Checklist, A1-F18AC-NFM-500	Digital or Hard copy	6	FY03	On Hand
Tactical Manual, A1-F18AC-TAC-000	Digital or Hard copy	6	FY03	Update in process
Tactical Manual Pocket Guide, A1-F18AC-TAC-300	Digital or Hard copy	6	FY03	Update in process

NOTE: For a complete listing of required technical manuals refer to applicable training course control document. Updated manuals are available from the NATEC website.

TRAINING ACTIVITY: SFWS Atlantic
LOCATION, UIC: NAS Oceana, 47084
CIN, COURSE TITLE: D-646-0640, F/A-18 Conventional Weapons Loading
D-646-0647, F/A-18 Conventional Release System Test

TECHNICAL MANUAL TITLE, NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
Airborne Weapons/Stores Loading Manual, A1-F18AE-LWS-000	Hard copy	10	FY03	On Hand
Release & Control (Missiles), Air to Air A1-F18AE-LWS-210	Hard copy	10	FY03	On Hand
AIM-9/Sidewinder/TACTS/SAIP POD A1-F18AE-LWS-530	Hard copy	10	FY03	On Hand
Organizational and Intermediate Maintenance with Illustrated Parts Breakdown, Sidewinder Guided Missile AIM-9X and Training Missile, AIM-9X Test Program Set, and CNU-609/E Container NAVAIR 01-AIM9X-2	Hard copy	10	FY03	On Hand

NOTE: For a complete listing of required technical manuals refer to applicable training course control document. Updated manuals are available from the NATEC website.

IV.B.3. TECHNICAL MANUALS

TRAINING ACTIVITY: SFWS Pacific
LOCATION, UIC: NAS Lemoore, 35185
CIN, COURSE TITLE: E-646-0640, F/A-18 Conventional Weapons Loading
E-646-0647, F/A-18 Conventional Release System Test

TECHNICAL MANUAL TITLE, NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
Airborne Weapons/Stores Loading Manual, A1-F18AE-LWS-000	Hard copy	10	FY03	On Hand
Release & Control (Missiles), Air to Air A1-F18AE-LWS-210	Hard copy	10	FY03	On Hand
AIM-9/Sidewinder/TACTS/SAIP POD A1-F18AE-LWS-530	Hard copy	10	FY03	On Hand
Organizational and Intermediate Maintenance with Illustrated Parts Breakdown, Sidewinder Guided Missile AIM-9X and Training Missile, AIM-9X Test Program Set, and CNU-609/E Container NAVAIR 01-AIM9X-2	Hard copy	10	FY03	On Hand

NOTE: For a complete listing of required technical manuals refer to applicable training course control document. Updated manuals are available from the NATEC website.

IV.B.3. TECHNICAL MANUALS

TRAINING ACTIVITY: NATTC, AO "A" School
LOCATION, UIC: NAS Pensacola, 63082
CIN, COURSE TITLE: C-646-2011, Aviation Ordnance Common Core Class A1
C-646-2012, Aviation Ordnanceman Navy Difference Training Strand

TECHNICAL MANUAL TITLE, NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
Airborne Weapons/Stores Loading Manual, A1-F18AE-LWS-000	Hard copy	10	FY03	On Hand
Release & Control (Missiles), Air to Air A1-F18AE-LWS-210	Hard copy	10	FY03	On Hand
AIM-9/Sidewinder/TACTS/SAIP POD A1-F18AE-LWS-530	Hard copy	10	FY03	On Hand
Organizational and Intermediate Maintenance with Illustrated Parts Breakdown, Sidewinder Guided Missile AIM-9X and Training Missile, AIM-9X Test Program Set, and CNU-609/E Container NAVAIR 01-AIM9X-2	Hard copy	10	FY03	On Hand
Airborne Weapons Packaging/Handling/ Stowage (Shipboard) Volume I, NAVAIR 11-120A-1.1	Hard copy	10	FY03	On Hand
Airborne Weapons Packaging/Handling/ Stowage (Shipboard) Volume II, NAVAIR 11-120A-1.2	Hard copy	10	FY03	On Hand
Guided Missile, AIM-9X Sidewinder, Ship Weapon Installation Manual, NAVAIR 11-120-84	Hard copy	10	FY03	On Hand
Airborne Weapons Handling Equipment (Shipboard), NAVAIR 19-100-2	Hard copy	10	FY03	On Hand
Airborne Weapons/Stores Checklist, Transporting and Loading Equipment Configuration (Shipboard), NAVAIR 19-95-1	Hard copy	10	FY03	On Hand
Airborne Weapons Assembly Manual Air Launched Guided Missiles and Selected Vehicles Volume I Air Intercept Missiles (Tactical) Organizational and Intermediate Activities, NA 11-140-6.1	Hard copy	10	FY04	Update in process

NOTE: For a complete listing of required technical manuals refer to applicable training course control document. Updated manuals are available from the NATEC website.

IV.B.3. TECHNICAL MANUALS

TRAINING ACTIVITY: MTU-4030 NAMTRAGRUDET
LOCATION, UIC: NS Mayport, 66069
CIN, COURSE TITLE: C-122-3111, Air Launched Guided Missiles Intermediate Maintenance
C-646-4109, Weapons Department General Aviation Ordnance

TECHNICAL MANUAL TITLE, NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
Organizational and Intermediate Maintenance with Illustrated Parts Breakdown, Sidewinder Guided Missile AIM-9X and Training Missile, AIM-9X Test Program Set, and CNU-609/E Container NAVAIR 01-AIM9X-2	Hard copy	12	FY03	On Hand
Airborne Weapons Packaging/Handling/ Stowage (Shipboard) Volume I, NAVAIR 11-120A-1.1	Hard copy	12	FY03	On Hand
Airborne Weapons Packaging/Handling/ Stowage (Shipboard) Volume II, NAVAIR 11-120A-1.2	Hard copy	12	FY03	On Hand
Guided Missile, AIM-9X Sidewinder, Ship Weapon Installation Manual, NAVAIR 11-120-84	Hard copy	12	FY03	On Hand
Airborne Weapons Handling Equipment (Shipboard), NAVAIR 19-100-2	Hard copy	12	FY03	On Hand
Airborne Weapons/Stores Checklist, Transporting and Loading Equipment Configuration (Shipboard), NAVAIR 19-95-1	Hard copy	12	FY03	On Hand
Airborne Weapons Assembly Manual Air Launched Guided Missiles and Selected Vehicles Volume I Air Intercept Missiles (Tactical) Organizational and Intermediate Activities, NA 11-140-6.1	Hard copy	12	FY04	Update in process

NOTE: For a complete listing of required technical manuals refer to applicable training course control document. Updated manuals are available from the NATEC website.

IV.B.3. TECHNICAL MANUALS

TRAINING ACTIVITY: MTU-4032 NAMTRAU
LOCATION, UIC: NAS Norfolk, 66046
CIN, COURSE TITLE: C-122-3111, Air Launched Guided Missiles Intermediate Maintenance
C-646-3118, Strike Armament Systems Intermediate Maintenance
C-646-4109, Weapons Department General Aviation Ordnance

TECHNICAL MANUAL TITLE, NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
Organizational and Intermediate Maintenance with Illustrated Parts Breakdown, Sidewinder Guided Missile AIM-9X and Training Missile, AIM-9X Test Program Set, and CNU-609/E Container NAVAIR 01-AIM9X-2	Hard copy	12	FY03	On Hand
Airborne Weapons Packaging/Handling/ Stowage (Shipboard) Volume I, NAVAIR 11-120A-1.1	Hard copy	12	FY03	On Hand
Airborne Weapons Packaging/Handling/ Stowage (Shipboard) Volume II, NAVAIR 11-120A-1.2	Hard copy	12	FY03	On Hand
Guided Missile, AIM-9X Sidewinder, Ship Weapon Installation Manual, NAVAIR 11-120-84	Hard copy	12	FY03	On Hand
Airborne Weapons Handling Equipment (Shipboard), NAVAIR 19-100-2	Hard copy	12	FY03	On Hand
Airborne Weapons/Stores Checklist, Transporting and Loading Equipment Configuration (Shipboard), NAVAIR 19-95-1	Hard copy	12	FY03	On Hand
Airborne Weapons Assembly Manual Air Launched Guided Missiles and Selected Vehicles Volume I Air Intercept Missiles (Tactical) Organizational and Intermediate Activities, NA 11-140-6.1	Hard copy	12	FY04	Update in process

NOTE: For a complete listing of required technical manuals refer to applicable training course control document. Updated manuals are available from the NATEC website.

IV.B.3. TECHNICAL MANUALS

TRAINING ACTIVITY: MTU-4033 NAMTRAU
LOCATION, UIC: NAS North Island, 66065
CIN, COURSE TITLE: C-122-3111, Air Launched Guided Missiles Intermediate Maintenance
C-646-3118, Strike Armament Systems Intermediate Maintenance
C-646-4109, Weapons Department General Aviation Ordnance

TECHNICAL MANUAL TITLE, NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
Organizational and Intermediate Maintenance with Illustrated Parts Breakdown, Sidewinder Guided Missile AIM-9X and Training Missile, AIM-9X Test Program Set, and CNU-609/E Container NAVAIR 01-AIM9X-2	Hard copy	12	FY03	On Hand
Airborne Weapons Packaging/Handling/ Stowage (Shipboard) Volume I, NAVAIR 11-120A-1.1	Hard copy	12	FY03	On Hand
Airborne Weapons Packaging/Handling/ Stowage (Shipboard) Volume II, NAVAIR 11-120A-1.2	Hard copy	12	FY03	On Hand
Guided Missile, AIM-9X Sidewinder, Ship Weapon Installation Manual, NAVAIR 11-120-84	Hard copy	12	FY03	On Hand
Airborne Weapons Handling Equipment (Shipboard), NAVAIR 19-100-2	Hard copy	12	FY03	On Hand
Airborne Weapons/Stores Checklist, Transporting and Loading Equipment Configuration (Shipboard), NAVAIR 19-95-1	Hard copy	12	FY03	On Hand
Airborne Weapons Assembly Manual Air Launched Guided Missiles and Selected Vehicles Volume I Air Intercept Missiles (Tactical) Organizational and Intermediate Activities, NA 11-140-6.1	Hard copy	12	FY04	Update in process

NOTE: For a complete listing of required technical manuals refer to applicable training course control document. Updated manuals are available from the NATEC website.

IV.B.3. TECHNICAL MANUALS

TRAINING ACTIVITY: MTU-4034 NAMTRAMARU
LOCATION, UIC: MCAS Cherry Point, 66047
CIN, COURSE TITLE: C-646-3105, Aviation Ordnance Intermediate Maintenance Technician

TECHNICAL MANUAL TITLE, NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
Organizational and Intermediate Maintenance with Illustrated Parts Breakdown, Sidewinder Guided Missile AIM-9X and Training Missile, AIM-9X Test Program Set, and CNU-609/E Container NAVAIR 01-AIM9X-2	Hard copy	12	FY03	On Hand
Airborne Weapons Assembly Manual Air Launched Guided Missiles and Selected Vehicles Volume I Air Intercept Missiles (Tactical) Organizational and Intermediate Activities, NA 11-140-6.1	Hard copy	12	FY04	Update in process

NOTE: For a complete listing of required technical manuals refer to applicable training course control document. Updated manuals are available from the NATEC website.

IV.B.3. TECHNICAL MANUALS

TRAINING ACTIVITY: MTU-4035 NAMTRAU
LOCATION, UIC: NAS Whidbey Island, 66058
CIN, COURSE TITLE: C-122-3111, Air Launched Guided Missiles Intermediate Maintenance
C-646-4109, Weapons Department General Aviation Ordnance

TECHNICAL MANUAL TITLE, NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
Organizational and Intermediate Maintenance with Illustrated Parts Breakdown, Sidewinder Guided Missile AIM-9X and Training Missile, AIM-9X Test Program Set, and CNU-609/E Container NAVAIR 01-AIM9X-2	Hard copy	12	FY03	On Hand
Airborne Weapons Packaging/Handling/ Stowage (Shipboard) Volume I, NAVAIR 11-120A-1.1	Hard copy	12	FY03	On Hand
Airborne Weapons Packaging/Handling/ Stowage (Shipboard) Volume II, NAVAIR 11-120A-1.2	Hard copy	12	FY03	On Hand
Guided Missile, AIM-9X Sidewinder, Ship Weapon Installation Manual, NAVAIR 11-120-84	Hard copy	12	FY03	On Hand
Airborne Weapons Handling Equipment (Shipboard), NAVAIR 19-100-2	Hard copy	12	FY03	On Hand
Airborne Weapons/Stores Checklist, Transporting and Loading Equipment Configuration (Shipboard), NAVAIR 19-95-1	Hard copy	12	FY03	On Hand
Airborne Weapons Assembly Manual Air Launched Guided Missiles and Selected Vehicles Volume I Air Intercept Missiles (Tactical) Organizational and Intermediate Activities, NA 11-140-6.1	Hard copy	12	FY04	Update in process

NOTE: For a complete listing of required technical manuals refer to applicable training course control document. Updated manuals are available from the NATEC website.

TRAINING ACTIVITY: NAVSCOLEOD
LOCATION, UIC: Eglin AFB, 62640
CIN, COURSE TITLE: A-431-0011, EOD Phase II (Navy)
A-431-0012, EOD Phase II

TECHNICAL MANUAL TITLE, NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
Explosive Ordnance Disposal Book, EODB6OG-02-2-34-5	CD-ROM	150	FY03	On Hand

NOTE: For a complete listing of required technical manuals refer to applicable training course control document. Updated manuals are available from the NATEC website.

IV.B.3. TECHNICAL MANUALS

TRAINING ACTIVITY: EODTEU ONE
LOCATION, UIC: San Diego, CA, 30202
CIN, COURSE TITLE: G-431-0001, EOD Pre-deployment Team Training

TECHNICAL MANUAL TITLE, NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
Explosive Ordnance Disposal Book, EODB6OG-02-2-34-5	CD-ROM	4	FY03	On Hand

NOTE: For a complete listing of required technical manuals refer to applicable training course control document. Updated manuals are available from the NATEC website.

TRAINING ACTIVITY: EODTEU TWO
LOCATION, UIC: Fort Story, VA, 43505
CIN, COURSE TITLE: G-431-0001, EOD Pre-deployment Team Training

TECHNICAL MANUAL TITLE, NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
Explosive Ordnance Disposal Book, EODB6OG-02-2-34-5	CD-ROM	4	FY03	On Hand

NOTE: For a complete listing of required technical manuals refer to applicable training course control document. Updated manuals are available from the NATEC website.

PART V - MPT MILESTONES

COG CODE	MPT MILESTONES	DATE	STATUS
PMA 205	Commence analysis of manpower personnel and training requirements (HARDMAN)	May 93	Completed
PMA 205	Prepare Human Systems Integration Plan for AIM-9X	July 94	Completed
PMA 205	Promulgate Draft NTSP	Dec 96	Completed
AIR-3.1.1L	Promulgated Draft ILSP	July 97	Completed
PMA 205	Promulgate Approved NTSP	May 98	Completed
AIR-3.1.1L	Promulgated Approved ALSP	Jan 99	Completed
RMS	Provide DT-IIB/C Training	July 98	Completed
RMS	Provide OT-IIA Training	Sep 99	Completed
RMS	Provide CCRP Training	July 00	Completed
NAVWPNTESTRON/AWL	Commence DT-ASSIST	Nov 00	Completed
PMA205	Provide SST Training	Mar 01	Completed
PMA205	Attend AV-8/WC 700 USMC MTRR	Apr/May 01	Completed
PMA 205	Promulgate Approved Update (Rev A) NTSP	June 01	Completed
RMS	Provide OT-IIB Training	Feb 02	Completed
OPTEVFOR/VX-9	Commence OPEVAL (OT-IIB)	Aug 02	Completed
PMA 259/205F2B/RMS	Begin Technical Training Equipment delivery	FY02	Completed
PMA 259/205F2B/RMS	Begin Training Device delivery	FY02	Completed
PMA 205-F2B	Begin Curricula material delivery	FY02	Completed
AIR-3.1.1L/RMS	Begin Technical Manuals delivery	FY03	Completed
PMA 205-F2B	Commence Initial Training	FY03	Completed
OPTEVFOR/VX-9	Complete OPEVAL (OT-IIB)	Aug 03	Completed
PMA 259/205-F2B/RMS	Complete Technical Training Equipment delivery	Feb 04	In Process
PMA 205	Promulgate Approved Update (Rev B) NTSP	Feb 04	In Process
PMA 205-F2B	Complete Curricula material delivery	Mar 04	In Process
PMA 259/205-F2B/RMS	Complete Training Device delivery (except CATM)	June 04	In Process
AIR-3.1.1L/RMS	Complete Technical Manuals delivery	FY04	In Process
AIR-3.1.1L	Material Support Date (MSD) attained	FY04	In Process
PMA 259/AIR-3.1.1L	Fleet Introduction	FY03-04	In Process
CNATT/NSAWC/MCCDC	Commence Follow-on Training	FY03	Completed
AIR-3.1.1L	Navy Support Date (NSD) attained	FY05	In Process

PART VI - ACTION ITEMS / ACTION REQUIRED

DECISION ITEM OR ACTION REQUIRED	COMMAND ACTION	DUE DATE	STATUS
Waive requirement for MPT Advisory Board and incorporate HARDMAN analysis data directly into Preliminary Draft NTSP.	OPNAV N889H	July 93	Closed - waiver granted.
Identify squadron proficiency training requirements, e.g., CATM and ICW, in Preliminary Draft NTSP.	PMA 205-5F	Dec 96	Closed – quantities and rationale included in NTSP.
Coordinate/integrate development of AIM-9X aircrew training with JHMCS training to the fullest extent possible.	PMA 205-3J	Feb 98	Closed – Joint Interface Control Working Group (JICWG) formed by PMA259.
Track status of AIM-9X maintenance concept for switch to shipboard BIT and reprogramming of AIM-9X assets using CMBRE.	PMA 205-3J	March 98	Closed – maintenance and training concept updated and resource requirements identified.
Identify organizations involved with AIM-9X-related TTE acquisition/modification and provide schedule information in NTSP.	PMA 205-3J	March 01	Closed – I.G.4. describes Digital Wingtip and AN/AWM-100 ECP, LAU-7D/A and A/E37T-35 ECP, TTU-574/E24A acquisition, and CNU-609/E acquisition. I.K.1 provides current schedule/delivery information.
Include CATM-9X requirements for FA-18E/F squadrons (other than FA-18A/B/C/D squadrons that will transition to FA-18E/F squadrons, i.e., F-14 squadrons)	PMA 205-8C	July 03	Closed – II.A.1.a and IV.A.2 updated to show additional F-14 squadrons that will transition to FA-18E/F squadrons.

PART VII - POINTS OF CONTACT

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MAJ Fred Jones Aviation Maintenance CNO N781C8 joel.jones@navy.mil	**COMM:** (703) 604-7773 **DSN:** 664-7773 **FAX:** (703) 604-6977
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CAPT Scott Stewart Air-to-Air Missile Program Manager NAVAIR, PMA 259 scott.stewart@navy.mil	**COMM:** (301) 757-7311 **DSN:** 757-7311 **FAX:** (301) 757-7310
Col James Bailey Short Range Missile (AIM-9X) Deputy Program Manager NAVAIR, PMA 259C james.bailey@navy.mil	**COMM:** (301) 757-7313 **DSN:** 757-7313 **FAX:** (301) 757-7310
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NAME / FUNCTION / ACTIVITY, CODE / INTERNET EMAIL	TELEPHONE NUMBERS
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CAPT Bill Glenn Force Gun Boss COMNAVAIRLANT N40C glennwg@cnal.navy.mi	**COMM:** (757) 444-7882 **DSN:** 564-7482 **FAX:** (757) 444-7483
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PART VII - POINTS OF CONTACT

NAME / FUNCTION / ACTIVITY, CODE / INTERNET EMAIL	TELEPHONE NUMBERS
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NAME / FUNCTION / ACTIVITY, CODE / INTERNET EMAIL	TELEPHONE NUMBERS
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LT Alan Nordholm Acquisition Coordinator Human Performance Center, Dam Neck Annex Alan.nordholm@cnet.navy.mil	**COMM:** (757) 492-6483 **DSN:** 492-6483 **FAX:** (757) 492-6486
CAPT Robert Holland Deputy Assistant, Chief of Naval Personnel for Distribution NAVPERSCOM, PERS-4B robert.holland@navy.mil	**COMM:** (901) 874-3529 **DSN:** 882-3529 **FAX:** (901) 874-2606
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